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A. P. I. Pacific Coast District Spring Meeting Draws Record Attendance

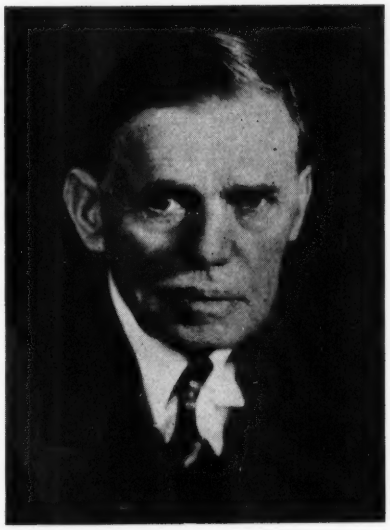
Under the general chairmanship of M. W. Morris, the Pacific Coast District Division of Production of the American Petroleum Institute held a record-breaking Spring Meeting at the Los Angeles Biltmore Hotel, April 11 and 12. Twelve papers made up the program of the first two-day session ever held by the Pacific Coast District.

Highlight of the meeting was the address given by the Hon. E. H. Moore, United States Senator from Oklahoma, at the Annual Banquet held in the Biltmore Bowl at the close of the first day's session. Speaking on "Would the Public Interest be Served by Nationalization of the Oil Industry", Senator Moore decried the leftish thinking of those in official position which fertilize the "seeds of socialism". He warned the oil industry that it, or any other private industry, " . . . cannot compete with government corporations that have at their disposal the finances of the nation and which are usually managed without that degree of financial responsibility necessarily imposed on private corporations both by the law and the investor." Government corporations, the Senator stated, are tax-free and profits are not essential.

Outlook for California Oil

In a forecast of California oil industry activities up to 1950 R. L. Minckler, vice president, General Petroleum Corp., pointed out that enlightened self-interest, as well as sound public policy, requires that the western oil industry produce only to meet demand. For more than twenty years, the author stated, the California crude oil producer has been in a buyer's market. In the almost immediate future, he explained, the producer will be in a seller's market. This will be good, not only for the producer but for the community and the nation as well, he said.

For the Pacific Coast region commercial activity was described as rising to extremely high levels during 1946 and early 1947 and that,



Senator E. H. Moore

starting in 1948, there will be a decline. Trans-Pacific shipments from California are described as likely to be limited to relief levels during the early years of the period 1946-50, and that local production in the East Indies and importations from the Persian Gulf will meet the demand thereafter.

The author confidently expects that domestic oil demand in the Pacific Coast area will exceed all earlier peacetime levels by a substantial margin and will probably exceed the estimates of postwar demand. A total inventory of 100 million barrels of crude oil and products in the Pacific Coast area is believed to be a comfortable working level. Crude oil requirements for the period 1947-50 are gauged by the author to be from 725,000 to 744,000 barrels daily, with exports limited to shipments to Canada for use in West Coast refineries at an estimated rate of 14,000 to 15,000 a day. The author estimates that the total population of the five western states will reach 13,785,000 by 1950 (9.66% of U. S.) with a motor vehicle registration of 5,241,000 (13.20% of U. S.)

California Drilling Costs

R. W. Marshall and R. C. Sharp of the Drilling & Exploration Company concluded that the overall daily cost of running a drilling rig has, regardless of depth, approximately doubled from 1936 to 1945. Data have shown that the number of actual drilling days, exclusive of days spent in completion work, has decreased almost 50 percent. With an approximate 100 percent increase in daily costs and a 50 percent decrease in drilling days, the average actual cost of making hole was described to be about the same in 1945 as it was in 1936.

Considering wells of all depths the authors show that the average daily operating cost has risen from a total of $480.00 per day in 1936 to $940.00 a day in 1945. It was pointed out that the rise is almost a constant 10 per cent per year. Ten years ago a complete drilling rig, then considered adequate for drilling to 10,000 feet, could be purchased for about $90,000.00. Today, a modern 10,000 foot rig, complete with alloy steel drill pipe, will cost between $150,000.00 and $200,000.00 or about twice the cost of ten years ago, it was asserted.

For shallow wells of 2,000-4,000 feet operating costs have increased from approximately $400.00 per day to more than $800.00 per day; but total rig days, in spite of the increase in completion time, has decreased from an average of approximately 35 days to an average of 23 days. In wells of 2,000-4,000 feet more than half of the total operating costs are due to the time spent in completion operations, the authors said. In deep wells the operating cost per day was explained to have increased from $620.00 to almost $1,200.00 per day.

The Eddy Current Rotary Brake

In discussing practical field experience with the electrical eddy current rotary brake, A. E. Woollen of the Standard Oil Company of California stated that the electric brake furnishes ample braking effort for present loads of drill pipe and casing. Its characteristic of furnishing

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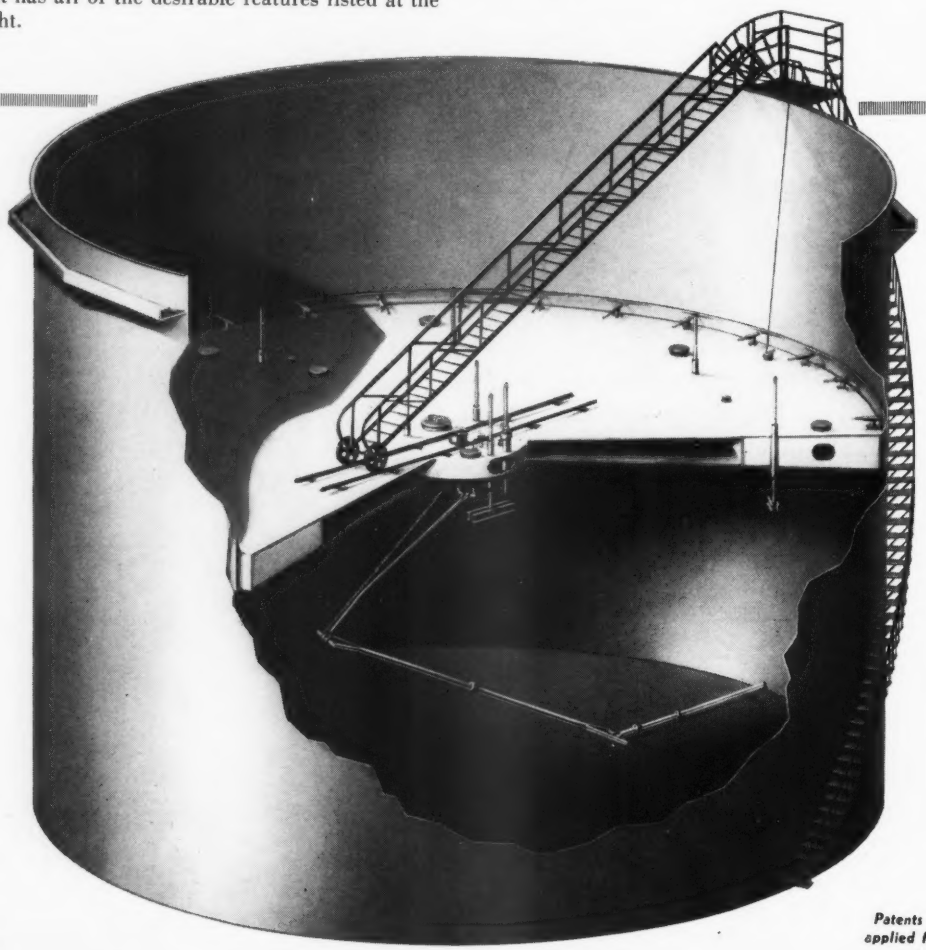

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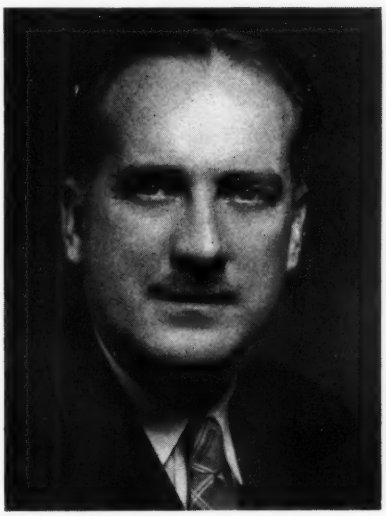
high torque at low rotating speed was described as very desirable. It was explained that the device will furnish all of the braking effort required at high drum speeds, leaving only the braking at very low speeds to be done by the friction brake. The author believes that no major problems exist in adapting this equipment to field use and that future development will be in minor refinements of control and design.

The eddy current rotary brake was described as an electric dynamometer with coils mounted in a stationary shell. When a direct current is passed through these coils a surrounding magnetic field is set up. The rotating member consists of a shaft, spider and drum. The brake drum is directly in the magnetic fields of the coils. Any rotation of the drum cuts the lines of magnetism and induces eddy currents within it. The electrical resistance of the drum is low, hence, at relatively low rotational speeds high eddy currents are induced within it. Resistance of the brake to rotation or its braking effort is proportional to the strength of the brake field and the value of the eddy currents induced in the brake drum. Since the brake is excited from a source outside the brake the field strength is not dependent on the speed thereof. Thus at low rotational speed a full field is obtained with strong eddy currents and a resultant high braking effort. Control of the braking effort is effected by increasing or decreasing the voltage impressed on the brake field and the consequent field strength.

Landing of Casing

With the introductory precaution that individual attention be given to casing-landing procedures in each well in a new field until enough information is available to warrant the adoption of a standard procedure, J. P. DeHetre of the Youngstown Sheet & Tube Co., presented a paper on casing-landing practices. Long oil strings and long intermediate protective strings were described as being the most hazardous and necessitate particular attention to keep their landing weight to a minimum consistent with other factors.

The conclusion that the landing weight of long strings should be held to a minimum, the author stated, is emphasized by referring to the A.P.I. data on biaxial loading which shows a substantial reduction of the resistance of casing to burst and collapse when tensile loads are more than half the yield strength of the pipe.



M. W. Morris, General Chairman

Technical aspects of the following landing methods were discussed: (1) Casing is landed at the exact position it occupied while standing cemented; (2) Casing is landed with a weight which is a certain arbitrarily chosen percentage (a) in excess of or (b) less than the measured weight of the pipe just prior to cementing; (3) Casing is landed with a certain number of inches (a) stretch or (b) slack per 1,000 feet of casing length, measured from the free hanging position while standing cemented.

Concepts of Secondary Recovery

In reviewing current concepts of secondary recovery and their application to California reservoirs, N. van Wingen of the Richfield Oil Corp. and Norris Johnston of the General Petroleum Corp. pointed out that, with few exceptions the California operator to date has not been secondary-recovery minded because of the pre-war availability of primary crude oil production greatly in excess of demand; the low average price of California crude; and the general lack of suitability of California type reservoirs to the secondary recovery methods as practiced in the Eastern and Mid-Continent oil fields of the United States.

From an exhaustive analysis of the literature the authors give what the optimum characteristics of a reservoir should be for a successful application of currently accepted secondary recovery methods. Residual oil saturation prior to flooding: 55 percent or more; reservoir oil viscosity: less than 500 centipoises; oil gravity: 35°-45° API; porosity: 25 percent or more; permeability: uniform and in excess of 100 millidarcys; sand composition: uniform grain size distribution and absence of argillaceous material; dip: in excess of 15 degrees; depth: not to exceed 3,000 feet; and sand thickness: 50 to 200 feet.

The authors explain that to determine the adaptability of a given pool to secondary recovery procedures, consideration has to be given to both physical and economic factors. Preliminary studies should be made to ascertain the physical and dynamic characteristics of the sands comprising the reservoir and its contained fluids, the suitability of existing wells for either production or injection purposes, the availability of an adequate supply of a suitable displacing fluid, the approximate pressures which will be required for injection, and the probable size of the plant which will be needed. Few of these factors are subject to control and the majority represent fixed and inherent properties of the reservoir.

North Coles Levee Pressure Maintenance

Discussing the North Coles Levee pressure maintenance project for the control of gas expansion, W. J. Travers, Jr., Richfield Oil Corp., stated that the 3600 horsepower compressor plant for the project was completed and the first gas injected on November 19, 1942. By January 1, 1943 sufficient gas was being injected to maintain pressures and complete pressure maintenance has been adhered to since that time. The dry gas zones in the Etchegoin formation have been partially developed and have been drawn upon for makeup gas to supplement dry gas from the absorption plant. Injection rates have varied from 20 and 35 million cubic feet daily at a pressure

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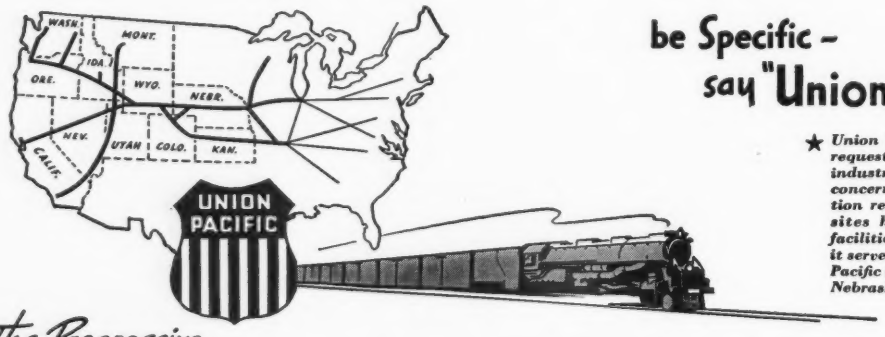

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of 3200 to 3400 pounds per square inch. The results observed to date have been most encouraging. The flowing life of the wells has been prolonged. The pattern and rate of gas cap expansion has been favorable.

Expansion of the gas cap, the author said, was noted early in the producing life of the field. Remedial work has been performed to lower the top of the producing interval. There is still no discernible movement of the bottom water. Gas is currently being injected at a surface pressure of 3300 pounds per square inch into five injection wells. The injection interval is confined to the top 150 feet of the Lower Western Zone. Four of these wells are used exclusively for gas injection and one is a combination injection and producing well. In the straight injection wells, gas is injected through 2½ inch tubing. In the combination well, gas is injected into the annulus between the 2½ inch tubing and a 6⅝ inch protective string while the well is produced through 2½ inch tubing.

Canal Field Gas Injection

According to R. P. Mangold, Shell Oil Co., during the development period of the Canal Field a study was made with the objective of determining the advisability of injecting gas into the reservoir with the hope that ultimate recovery could be increased as a result of maintaining pressures, or at least retard the rate of decline. It was expected that gas injection would result in substantial savings in operating expenses, both from the standpoint of eliminating the need for pumping equipment at about half of the wells and prolonging the flowing life of other wells with a resultant saving in lifting costs.

Full scale injection has been in progress for about 3½ years during which period the average observed reservoir pressure apparently was maintained practically constant until recently. About three-quarters of the producing wells are now subject, in varying degree, to blow-through of injected gas. The author believes that it is still too early to determine the effect of gas injection on ultimate recovery. There is some indication of a better sustenance of production from upstructure wells than might otherwise have been expected. On the other hand, there appears to be little, if any, movement of oil to downstructure wells, practically all of which are pumping and have relatively low productivity indices, he said.

Playa Del Rey Gas Storage Reservoir

During the war it was desired to provide underground fuel gas storage capacity so that surplus gas in the Los Angeles Basin could be stored during the summer and withdrawn during winter peak demand, according to L. S. Kelsey and E. C. Babson of the Union Oil Company. It was not feasible to construct additional pipeline or compressor facilities to deliver gas from the San Joaquin Valley because of war-time restrictions on the use of materials, the authors stated, and the erection of surface storage of the required capacity was impracticable. After investigation it was concluded that the Del Rey Hills area of the Playa del Rey Field offered the greatest promise as an underground storage reservoir.

It was explained that the portion of the field chosen for the storage project was the area which lies along the northeast flank of the schist ridge almost due east from the southerly end of the ocean-front field. The zone into which gas has been injected is the Lower or oil-sand conglomerate zone. This zone immediately overlies the Franciscan formation and is, in turn, overlain conformably by the nodular shale which forms the cap rock for the reservoir.

While certain difficulties have been encountered during the operation, and performance is not theoretically perfect, the authors point out that to date 2,330,000,000 cubic feet of gas have been stored and withdrawn at high pressure during the winter months; thus furnishing an urgently needed supplementary supply to meet peak demands.

Greeley Field Waste Water Injection

As reported by J. T. Crooker and F. H. Schnoor of the Standard Oil Company of California, a waste water disposal problem in the Greeley Field of the San Joaquin Valley in which disposal by injection into a practically depleted zone has provided a means of disposing of the water. At the present time it appears that adjacent upstructure wells have benefited by the artificial water-drive caused by injection. The water has been injected into low structural wells in a pool of active hydraulic control and 20-acre spacing for a period of two years. Injection has been carried on at a cost comparable to or less than by other methods. The water is prepared for injection by skimming off any oil, flocculating any suspended matter with alum, settling the floc, filtering the water and then pumping into the injection well.

Over a 10-year period the cost for continuous operations is expected to amount to .82 to .96 cents per barrel of water disposed of. Disposal by evaporation over the same period computes to 1.5 to 1.64 cents per barrel, while disposal by spreading water on waste land figures to ½ cent per barrel.

Core Analysis Interpretation

Jan Law, consultant, and W. F. Cerini of the Union Oil Co. described a statistical approach to core analysis interpretation. They point out that it is recognized that core samples as recovered by coring operations may have been removed from a sand capable of producing oil, or from a sand capable of producing exclusively water. Groups of core samples removed from either type of sand exhibit a wide variation in oil saturation. The variation in oil saturation is sufficiently great that low oil values, in the oil sand portions of a cored section, extend well into the range of saturation exhibited in the water sand portions. Conversely, high oil values in the water sand portions of a cored section extend well into the range of saturation exhibited in the oil sand portions.

The authors conclude that this variation in oil saturation, as found in core samples recovered from oil-producing sands, is caused by forces or factors other than the variation in porosity, permeability and water

A.

P.

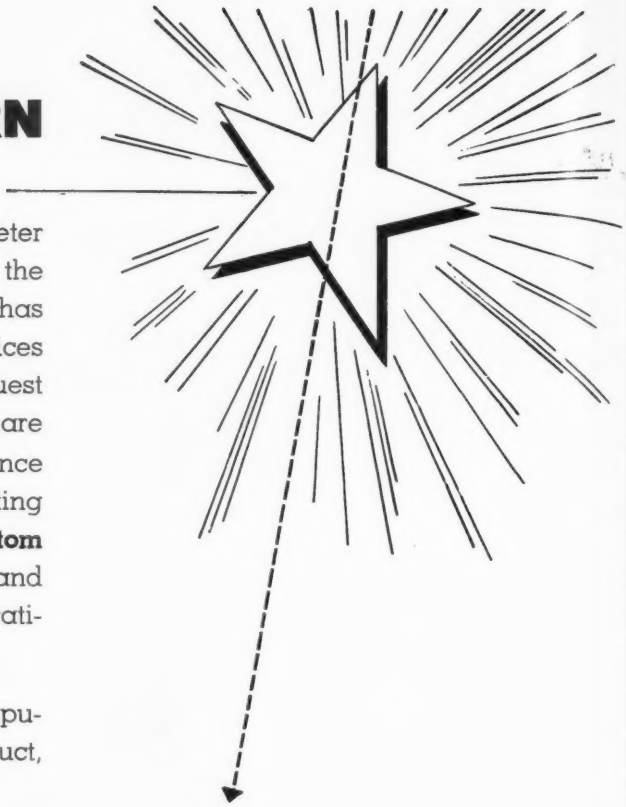
I.

Spring

Meeting

Los Angeles

A NEW STAR IS BORN



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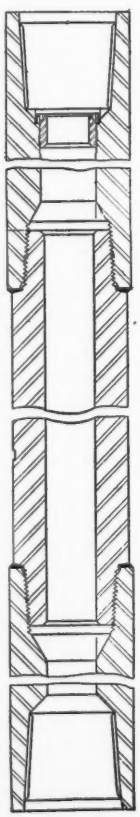

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saturation. The opinion is advanced that the greater dispersion of oil saturation in oil sands as compared to the lesser dispersion of oil saturation in water sands, provides, by means of measures of dispersion, an additional criteria for core analysis interpretation.

Oil-Base Fluids for Drilling

In a discussion of the results and use of oil base fluids in drilling and completing wells, G. V. Kersten, Western Gulf Oil Co., explained that the use of oil-base fluid appears to improve the initial ability of a well to produce oil; but that there is inadequate evidence that the improvement is of lasting benefit. Well completion practices are improved; with swabbing, washing and scratching seldom necessary. The effect of the use of oil-base fluid in drilling operations tends, in general, to increase rig time. Precautions are necessary to prevent fires, water contamination and unnecessary fluid losses.

The author states that the effect of oil-base fluid on completion problems is noticeable where the program calls for more than a drilled hole with a liner. Cement work on blank sections and squeeze work on gun perforations is not so easy as with water-base muds.

The expenses of completion were given as increased from $3.00 per foot in shallow holes to possibly $30.00 per foot in deep holes where necessary secondary shut-offs are made. Improvements in technique and handling should reduce costs in the future, the author said, but the operator first using oil-base fluid is apt to experience excessive costs until his men are properly educated as to technique of handling and saving the fluid.

Water-Base Mud Developments

In a paper reviewing special water-base mud developments, W. R. Kelley, General Petroleum Corp.; T. F. Ham, Superior Oil Co.; and A. B. Dooley, Belridge Oil Co. explained that clay water-base muds are by far the most commonly used in general drilling and completion practice.

Organic colloids recently have had extensive use in compounding water-base muds. A commercial modified starch is commonly used. Muds with low filter loss characteristics can be compounded by the addition of modified starch with less difficulty than would be experienced by addition of clay colloids to secure similar results. Another feature of muds compounded with modified starch was given as their relative immunity to contaminants such as saline water, cement cuttings and other detrimental materials which so adversely affect the constituents of clay-base muds.

Another modification of water-base muds was described as being achieved by adding some oil-base fluid to a clay-and-water mud. This type of mud was mentioned as having been successfully used in several instances to correct tight hole conditions.

The authors stated that the cost of chemically treated water-base muds varies from 30c to 75c per barrel, providing that no weighting material has been added. Organic colloid mud costs vary from $1.50 to $2.50 per barrel, depending upon the original clay used, the concentration of the modified starch, and other necessary ingredients such as caustic, hydrated lime, preservative, etc.

Water-base and oil-base blends were given as ranging in cost from $2.00 to $2.50 per barrel depending upon the cost of the original clay used. The concentration of the oil-base fluid added to the clay-base mud is usually maintained at approximately 25% of the total volume of the mud, the authors said.

A.A.P.G. to Hold 1947 Meeting in Los Angeles

Winding up a four day scientific and technical meeting at the Stevens Hotel in Chicago last week, the American Association of Petroleum Geologists accepted the California delegation's invitation to hold the 1947 annual meeting in Los Angeles.

The last annual meeting of the group to be held in Los Angeles was in March 1937 and was staged at the Biltmore Hotel. The annual meeting is attended by geologists from all parts of the United States.

Noble Elected President of A.A.P.G.

Earl B. Noble, Manager of Exploration of the Union Oil Co., was elected President of the American Association of Petroleum Geologists at the annual meeting held at the Stevens Hotel in Chicago, April 2 to 4.

Noble, who succeeds Monroe G. Cheney as President, has been active in Association affairs for a number of years, having served as Vice President of the geological association in 1941. In 1929 he was President of the Pacific Section of the American Association of Petroleum Geologists.

Noble has been on the Geological staff of the Union Oil Co. since 1923. In 1937 he was elevated to Chief Geologist and in 1944 he was appointed Manager of Exploration for that company.

Serving with Noble as officers of the Association will be David P. Olcott of Humble Oil & Refining Co., newly elected vice president, and Edward A. Koester of Darby Petroleum Corp., as secretary-treasurer.

Jack Smith Visits South America

Jack S. Smith, Manager of the Cementing Department of International Cementers, Inc., is at present on an extended tour of various oil producing areas of South America. Plans include stays in Maracaibo, Eastern Venezuela; Baranquilla, Cucuta, and Bogata, Columbia; and via the Canal Zone to Mexico, returning early in May.

Gardena Wildcat Working On Fish

Ohio Oil Co. has spotted oil at 9300 ft. in its Gardena Comm. No. 4-1 in Sec. 23-3s-14w in the Gardena area, with work concentrated on removing fish. Total depth is 10,067 ft.

Shell Plans Tulare Test

Shell Oil Co., Inc. has location staked for Sunnyvale Comm. No. 14-1 in Sec. 29-23s-26e in the Sunnyvale area, Tulare County. The first project in the area failed of its purpose.

PERCENTAGE OF WATER PRODUCTION—JUNE 1945 & DECEMBER 1945

Prepared by the Conservation Committee of California Oil Operators

	DECEMBER—1945			June 1945	Increase or*
	Oil Barrels	Water Barrels	Percent Cut	Percent Cut	Decrease
SAN JOAQUIN VALLEY					
BELRIDGE NORTH	171,978	54,031	23.9	19.9	4.0
Shallow	1,756	1,796	50.6	65.2	14.6*
Temblor	20,374	29,299	59.0	36.7	22.3
"R-Sand"	3,564	82	2.2	....	....
Wagon Wheel	118,984	21,490	15.3	18.6	3.3*
"Y-Sand"	27,300	1,364	4.8	1.6	3.2
BELRIDGE SOUTH	335,375	152,944	31.3	26.0	5.3
South Belridge Area Shallow	334,889	151,934	31.2	25.9	5.3
Middle Belridge Area Shallow	486	1,010	67.5	65.6	1.9
BUENA VISTA	1,236,341	602,713	32.8	26.5	6.3
Buena Vista Front	138,353	160,526	53.7	57.2	3.5
Buena Vista Hills	1,097,988	442,187	28.7	22.2	6.5
27-B	812,458	55,887	6.4	3.1	3.3
Others	285,530	386,300	57.5	58.2	.7*
CANAL—Stevens	89,200	10,855	10.8	10.9	.1*
COALINGA EAST	2,323,940	813,079	25.9	22.6	3.3
Main Area	573,939	218,988	27.6	26.9	.7
Temblor	571,137	218,436	27.7	26.7	1.0
Cretaceous	2,802	552	16.5	21.6	5.1*
Coalinga Nose Area Eocene	1,389,161	221,927	10.5	11.1	.6*
Coalinga Northeast Area Eocene	248,024	356,193	59.0	52.8	6.2
Pleasant Valley Area Eocene	112,816	15,971	12.4	6.6	5.8
COALINGA WEST—Main Area	218,846	587,429	72.9	69.8	3.1
COFFEE CANYON	34,667	949,012	96.5	96.0	.5
COLES LEVEE NORTH	690,391	18,470	2.6	2.2	.4
Northwest Area	2,538	....	....	....	....
Richfield Western Area	687,853	18,470	2.6	2.1	.5
21-1	87,902	3,964	4.3	3.8	.5
Western-29	47,074	853	1.8	2.5	.7*
Main Western	552,877	13,653	2.4	1.9	.5
COLES LEVEE SOUTH—Stevens	63,070	1,825	2.8	4.5	1.7*
EDISON—Main Area	338,875	108,456	24.2	47.3	23.1*
First Duff	47,386	56,244	54.2	57.5	3.3*
Second Duff	74,687	38,185	33.8	36.0	2.2*
Fractured Schist	215,986	13,628	5.9	....	....
Fairfax Area Wicker	816	399	32.8	48.5	15.7
ELK HILLS—Main Area	443,926	354,455	44.4	22.9	21.5
Upper	443,926	354,455	44.4	22.9	21.5
Lower	....	....	....	....	....
Northwest Area Olig	....	....	....	....	....
FRESNO AREA	359,607	99,840	21.7	16.0	5.7
BURREL—Miocene	480	126	20.8	18.1	2.7
HELM—Temblor	131,174	9,971	7.1	3.0	4.1
Upper	19,984	4,018	16.7	7.8	8.9
Lower	....	....	....	....	....
Eocene	111,190	5,953	5.0	2.3	2.7
LANARE	40,920	9,356	18.6	2.1	16.5
Miocene	33,476	9,222	21.6	....	....
Eocene	7,444	134	1.8	3.0	1.2*
PANOCHE CREEK	....	....	....	....	....
RAISIN CITY	83,461	69,815	45.5	34.6	10.9
Miocene	52,808	45,217	46.1	36.4	9.7
Eocene	30,653	24,598	44.5	31.1	18.4
RIVERDALE	103,572	10,572	9.3	6.1	3.2
Miocene	56,416	6,061	9.7	5.0	4.7
Eocene	47,156	4,511	8.7	7.0	1.7
TURK ANTICLINE	....	....	....	....	....
FRUITVALE—Martin-Kerneo	250,212	247,778	49.8	40.1	9.7
GREELEY	321,569	120,410	27.2	18.9	8.3
Greeley	21,273	70,218	76.7	72.6	4.1
11-2	300,296	50,192	14.3	9.3	5.0
KERN FRONT—All Pools	266,977	546,277	67.2	64.0	3.2
KERN RIVER—All Pools	297,048	5,926,541	95.2	94.7	.5
KETTLEMAN NORTH DOME	1,178,965	739,798	38.6	37.4	1.2
Temblor	899,830	717,972	44.4	43.5	.9
Vaqueros	194,648	7,819	3.9	3.5	.4
Eocene	84,487	14,007	14.2	11.9	2.3
LOST HILLS	95,859	584,713	85.9	83.4	2.5
Main Area	88,018	478,931	84.5	81.4	3.1
Williamson Area	7,841	105,782	93.1	92.7	.4
McKITTRICK DISTRICT	241,510	709,582	74.6	83.5	8.9*
CYMRIC—Shallow	30,171	86,392	74.1	74.8	.7*
54-21	900	1	.1	....	....
Anderson 45	42,909	2,887	6.3	....	....
Brunt	32,162	61	.1	....	....
McKITTRICK	94,242	530,112	84.9	86.5	1.6*
McKITTRICK FRONT	40,631	64,629	61.4	71.5	10.1*
Upper	23,498	3,030	11.4	36.0	24.6*
Lower	17,133	61,599	78.2	75.1	3.1
TEMBLOR RANCH	495	25,500	98.1	98.4	.3*
MIDWAY-MARICOPA DISTRICT	1,196,701	2,043,960	63.1	65.5	2.4*
Lake View Area	74,723	7,747	9.4	8 5	9
Gibson Area	9,545	18,272	65 7	75 5	9.8*
Maricopa Flat Area	22,450	79,156	77.9	75.1	2.8
Midway East Area	297,062	477,271	61.6	60.9	.7
Midway West Area	666,905	1,150,300	63.3	64.1	.8*
Quality Area	53,035	188,782	78.1	86.2	8.1*
Republic Area	20,937	111,078	84.1	82.2	1.9
Section 6 Area	13,034	11,071	45.9	54.3	8.4*
Santiago Area	39,010	283	.7	....	....
Shallow	14	7	33.3	....	....
Leutholtz	38,996	276	.7	....	....
MOUNT POSO DISTRICT	544,618	4,941,363	90.1	89.2	.9
BAKER	11,382	344,816	96.8	94.6	2.2
DOMINION	13,577	140,424	91.2	92.0	.8*
DORSEY	12,678	185,642	93.6	91.3	2.3
MOUNT POSO—Main Area	463,305	3,871,281	89.3	88.9	.4
NORTH MOUNT POSO	38,528	385,698	90.9	88.9	2.0
SUNSET	2,152	7,853	78.5	75.4	3.1
VEDDER	2,996	5,649	65.3	47.0	18.3
WEST MOUNT POSO	....	....	....	....	....
MOUNTAIN VIEW	83,680	140,703	62.7	64.7	2.0*
Northwest Area	18,142	38,735	68.1	73.2	5.1*
Southeast Area	60,027	92,502	60.6	60.3	.3
Earl Fruit Area	1,736	1,010	36.8	35.6	1.2
Arvin Area	3,775	8,456	69.1	67.4	1.7
PALOMA	147,134	1,035	.7	.9	.2*
Paloma—Black Oil	147,134	1,035	.7	.9	.2*

	DECEMBER—1945			June 1945	Increase or*
	Oil Barrels	Water Barrels	Percent Cut	Percent Cut	Decrease
SAN JOAQUIN VALLEY—Continued					
POSO CREEK DISTRICT	115,212	262,954	69.5	65.8	3.7
McVAN	2,575	11,515	81.7	64.1	17.6
PREMIER	104,569	220,599	67.8	65.4	2.4
EAST PREMIER	8,068	30,840	79.3	71.4	7.9
RIO BRAVO—Rio Bravo—Vedder	415,292	81,946	16.5	12.9	3.6
ROUND MOUNTAIN DISTRICT	257,734	2,570,837	90.6	90.8	.2*
Main Area	149,694	1,800,322	92.3	91.9	.4
Jewett	22,394	67,006	74.8	74.7	.1
Vedder	127,100	1,733,316	93.1	92.7	.4
North Sharkstooth Vedder	28,914	27,873	49.1	41.3	7.8
Northwest Area Vedder	38,907	568,933	93.6	93.4	.2
Pyramid Area Vedder	34,502	148,054	81.1	82.8	1.7*
West Area Vedder	5,717	25,635	81.8	71.6	10.2
STRAND	52,537	48,934	48.2	50.4	2.2*
Stevens	52,537	48,934	48.2	50.4	2.2*
Upper	21,676	2,057	8.7	7.6	1.1
Lower	30,861	46,877	60.3	61.0	.7*
STRAD EAST—Stevens	18,486	84	.5	.9	.4*
TEN SECTION—Stevens	268,017	15,572	5.5	4.1	1.4
WASCO	30,391	71,623	70.2	70.3	.1*
Shale	2	13	86.7	....	....
Vedder	30,389	71,610	70.2	70.3	.1*
WHEELER RIDGE—All Pools	6,843	2,153	23.9	23.6	.3
WILLIAMS—Williams	53,525	83,375	60.9	56.5	4.4
East Block	20,048	31,924	61.4	51.3	10.1
West Block	33,477	51,451	60.6	56.2	4.4
OTHER FIELDS	273,206	74,979	21.5	18.5	3.0
ANTELOPE PLAINS	....	....	....	....	....
ANT HILL	35,879	10,712	23.0	19.1	3.9
Olcese	24,257	3,294	12.0	10.9	1.1
Jewett	11,622	7,418	39.0	22.2	16.8
ARVIN	799	129	13.9	1.9	12.0
BELLEVUE—Upper Stevens	14,135	7,103	33.4	11.0	22.4
BLACKWELLS CORNER	6,345	2,570	28.8	71.0	42.2*
CANFIELD RANCH	1,031	....	....	....	....
CHICO MARTINEZ	163	59	26.6	....	....
DEVIL'S DEN	....	....	....	11.1	....
GOSFORD—Stevens	3,899	3,295	45.8	32.7	13.1
GOULD HILLS	....	....	....	82.27	....
JACALITOS ANTICLINE—Temblor	127,028	21,333	14.4	3.2	11.2
Upper	58,163	3,192	5.2	4.9	.3
Lower	68,865	18,141	20.8	1.9	18.9
McCLUNG	1,121	3,182	74.0	71.4	2.6
McDONALD ANTICLINE	1,287	57	4.2	....	....
PYRAMID HILLS	9,899	1,207	10.9	10.3	.6
RACE TRACK HILL—Jewett	31,370	11,237	26.4	12.1	14.3
ROSEDALE RANCH	5,227	7,349	58.4	7.5	50.9
SHEEP SPRINGS—Carneros	18,112	1,778	9.0	2	8.8
TEJON RANCH—Metzenbaum	6,130	2,395	28.1	10.1	18.0
Reserve (Grapevine)	1,126	....	....	....	....
Richfield	7,044	2,547	26.6	17.7	8.9
TERRA BELLA	....	....	....	....	....
UNION AVENUE	2,611	26	1.0	....	....
VALLECITOS—Cretaceous	....	....	....	....	....
SAN JOAQUIN VALLEY TOTAL	12,421,732	22,967,726	64.7	60.5	4.2
COASTAL					
Santa Barbara District					
CAPITAN	96,726	193,933	66.7	72.3	5.6*
Vaqueros	44,531	186,882	80.8	74.8	6.0
Erburu	3,160	2,506	44 2	37.2	7.0
Covarrubias	44,161	352	.8	9.1	8.3*
Coldwater	4,874	4,193	46.2	....	....
ELWOOD	183,369	336,940	64.8	61.0	3.8
Vaqueros	180,849	307,217	63.3	59.7	3.6
Sespe	2,520	29,723	92.2	90.8	1.4
SANTA BARBARA—Vaqueros	2,948	48,950	94.3	93.2	1.1
SUMMERLAND—All Pools	....	....	....	....	....
Santa Maria District	1,566,133	1,203,991	43.5	39.3	4.2
BRADLEY CANYON—Miocene	....	....	....	9.8	....
Sisquoc	....	....	....	59.5	....
CASMALIA—All Pools	1,150	767	40.0	43.1	3.1*
CAT CANYON	251,368	136,754	35.2	28.4	6.8
East	22,952	3,497	13.2	11.4	1.8
West	43,822	25,307	36.6	34.8	1.8
Los Flores	184,594	107,950	36.9	29.1	7.8
GATO RIDGE—Tognazzini	125,816	60,596	32.5	25.3	7.2
LOMPOC—All Pools	40,397	79,894	66.4	62.0	4.4
ORCUTT—All Pools	107,518	182,130	62.9	69.3	6.4*
SANTA MARIA VALLEY—					
All Areas	1,031,937	742,785	41.9	35.5	6.4
ZACA CREEK	7,947	1,065	11.8	10.8	1.0
Ventura District					
PADRE CANYON—All Pools	78,652	13,897	15.0	12.1	2 9
RINCON	151,052	34,349	18.5	20.3	1.8*
Hobson-Tomson-Miley	147,626	34,169	18.8	20.3	1.5*
Deep	3,426	180	5.0	21.3	16.3*
SAN MIGUELITO	147,862	9,958	6.3	5.4	.9
Grubb One	105,189	9,534	8.3	6.7	1.6
Grubb Two	42,673	424	1.0	.7	.3
VENTURA AVENUE	1,438,163	288,123	16.7	14.3	2.4
Shallow Pool	557,085	227,480	29.0	21.4	7.6
A-3, B-3	37,976	36,334	48.9	31.0	17.9
B-1, 2	5,172	2,535	32.9	31.5	7.4
B-4, 5 West	33,586	1,724	4.9	1.9	2.5
"C" Block	443,051	177,100	28.6	26.0	2.6
C-1, 2 West	746	2	....	2.7	....
C-3 West	36,554	9,785	21.1	9.1	12.0
C-6 West	....	....	....	4.6	....
Deep Pool	881,078	60,643	6.4	6.5	.1*
D-3	49,217	14,976	23.3	25.9	2.6*
D-4	3,316	854	20.5	16.3	4.2
D-5, 6 East	248,018	11,948	4.6	3.8	.8
D-5 West	156,110	15,505	9.0	9.4	.4*
D-6 West	76,394	6,662	8.0	7.6	.4
D-7	348,023	10,698	3.0	1.4	1.6
VENTURA-OJAI	100	30	23.1	31.0	7.9*
TIPTOP-FRESNO CANYON	100	30	23.1	31.0	7.9*

PERCENTAGE OF WATER PRODUCTION—JUNE 1945 & DECEMBER 1945

	DECEMBER—1945			June 1945	Increase or*
	Oil Barrels	Water Barrels	Percent Cut	Percent Cut	Decrease
COASTAL—Continued					
Santa Paula-Newhall District					
FILLMORE GROUP	62,714	16,282	20.6	18.7	1.9
BARDSDALE	15,763	6,349	28.7	30.9	2.2*
Elkins Area	....	....	....	....	....
Other Areas	15,763	6,349	28.7	30.9	2.2*
SESPE CANYON	4,511	550	10.9	31.9	21.0*
SHIELDS CANYON	42,003	9,339	18.2	13.5	4.7
TOPA-TOPA	437	44	9.1	9.0	.1
NEWHALL GROUP	431,282	26,653	5.8	7.1	1.3*
DEL VALLE	190,113	22,163	10.4	12.9	2.5*
East Area	51,571	16,514	24.2	28.9	4.7*
Sherman	19,038	14,761	43.7	45.7	2.0*
Del Valle	24,583	1,436	5.5	3.4	2.1
DL4-DL5	267	152	36.3	12.6	23.7
Bering	7,683	165	2.1	2.9	.8*
West Area	124,112	5,579	4.3	4.5	.2*
Sepulveda	14,082	256	1.8	2.3	.5
Vasquez 13	22,209	159	.7	2.6	1.9*
Vasquez-Videgain	86,540	5,115	5.6	4.9	.5
Sterry	1,281	49	3.7	16.3	12.6*
Ramona	14,430	70	.5	.3	.2
ELSMERE CANYON	....	....	....	....	....
HASLEY CANYON	448	14	3.0	....	....
NEWHALL	1,694	1,274	42.9	61.4	18.5*
NEWHALL-POTRERO	180,841	1,145	.6	.4	.2
123	165,848	1,116	1.7	.4	1.3
6th	14,993	29	.2	.1	.1
OAK CANYON	57,926	1,157	.2	3.6	5.6*
1-A	508	2	.4	59.0	58.6*
3-AB	22,605	698	3.0	1.2	1.8
4-AB	4,945	111	2.2	.6	1.6
5-A	27,475	44	.2	.2	....
8-AB	2,393	302	11.2	3.0	8.2
PICO CANYON	....	....	....	....	....
WILEY-TOWSLEY CANYON	260	900	77.6	60.5	17.1
PIRU GROUP	30,659	24,802	44.7	37.6	7.1
HOLSER CANYON	562	775	58.0	58.0	....
HOPPER CANYON	4,139	7,780	65.3	65.3	....
MODELO	68	....	....	....	....
TAPO-EUREKA	60	50	45.5	45.1	.4
TEMESCAL	21,591	11,733	35.2	28.7	6.5
TORREY CANYON	4,239	4,464	51.3	22.5	28.8
SANTA PAULA GROUP	95,302	11,824	11.0	14.4	3.4*
EX-MISSION	897	3,396	79.1	76.9	2.2
SISAR-SILVERTHREAD	4,052	1,469	26.6	33.8	7.2*
SOUTH MOUNTAIN	89,664	6,558	6.8	8.8	2.0*
SULPHUR MOUNTAIN	....	....	....	....	....
TIMBER CANYON	689	401	36.8	34.2	2.6
WEST MOUNTAIN	....	....	....	....	....
SIMI-CONEJO-OXNARD	29,784	2,997	9.1	8.7	.4
CONEJO	....	....	....	....	....
OXNARD	27,375	344	1.2	1.5	.3*
SIMI	2,409	2,653	52.4	58.8	6.4*
Other Coastal Counties	2,420	1,725	41.6	46.1	4.5*
SAN LUIS OBISPO	1,830	1,725	48.5	53.0	4.5*
EDNA	960	960	50.0	50.7	.7*
HUASNA	....	....	....	....	....
PISMO	870	765	46.8	55.5	8.7*
Martin	....	....	....	....	....
East Elberta	....	....	....	....	....
SAN MATEO—HALF MOON BAY	....	....	....	....	....
SANTA CLARA—LOS GATOS	....	....	....	....	....
SARGENT	590	....	....	....	....
COASTAL TOTAL	4,317,166	2,214,454	33.9	31.4	2.5
LOS ANGELES BASIN					
ALAMITOS HEIGHTS—All Pools	18,157	137,898	88.3	85.5	2.8
ALISO CANYON	93,471	2,042	2.1	4.3	2.2*
Porter	36,223	843	2.7	8.4	5.7*
Sesnon	56,612	419	.7	.5	.2
Faulted Sesnon	386	407	51.3	10.0	41.3
Eocene	250	373	59.9	39.2	20.7
BREA-OLINDA DISTRICT	330,940	232,610	41.3	40.3	1.0
BREA	146,977	128,168	46.6	44.7	1.9
OLINDA	119,835	99,754	45.4	46.7	1.3*
TONNER	64,128	4,688	6.8	2.6	4.2
COYOTE EAST	148,678	184,875	55.4	55.3	.1
Graham-Loftus-Hualde	71,774	151,237	67.8	69.0	1.2*
Mathis	38,794	26,548	40.6	34.4	6.2
Stern	38,110	7,090	15.7	15.8	.1*
COYOTE WEST	485,161	330,531	40.5	43.1	2.6*
Murphy	114,686	210,692	64.8	59.7	5.1
Ninety-Nine	153,444	90,663	37.1	48.6	11.5*
Lower 99 East	48,957	8,429	14.7	5.1	9.6
Emery East	101,183	7,928	7.3	5.6	1.7
Emery West	65,691	12,481	16.0	16.5	.5*
McNally	1,200	338	22.2	21.9	.3
DOMINGUEZ	532,720	418,657	44.0	39.8	4.2
Pliocene	396,773	368,274	48.1	43.0	5.1
5th West Block	39,322	3,642	10.7	4.8	5.9
Other Blocks	366,451	364,632	49.9	49.9	....
Miocene	135,947	50,383	27.0	27.8	.8
7th Central Block	17,946	4,818	21.1	9.4	11.7
8th Central Block	29,892	6,316	17.4	21.9	4.5*
South Central Block	22,289	4,336	16.3	10.1	6.2
Southwest Block	3,077	2,059	40.1	35.9	4.2
West Block	56,253	18,976	25.2	22.9	2.3
West Town Lot Block	6,490	13,878	68.1	73.0	4.9*
EL SEGUNDO	19,102	64,639	77.2	78.7	1.5*
West Area	1,054	144	12.0	12.0	....
Other Areas	18,048	64,495	78.1	79.4	1.3*
HUNTINGTON BEACH NEW	972,147	262,377	21.3	20.2	1.1*
On-Shore Area	117,606	142,760	54.8	55.7	.9*
Tar Zone	15,570	26,655	63.1	64.0	.9*
Main	68,038	109,724	61.7	62.2	.5*
A-37	* 31,324	1,991	6.0	3.7	2.3
A-66	2,674	4,390	62.1	....	....
Off-Shore Area Main	568,134	116,564	17.0	16.5	.5
Jones	286,407	3,053	1.1	.9	.2
HUNTINGTON BEACH OLD	468,656	634,403	57.1	57.2	.1*
Tar Bolsa	51,125	113,225	68.9	58.4	10.5
Ashton	417,531	521,178	55.5	56.4	.9*
INGLEWOOD	435,120	902,572	67.5	64.6	2.9
Vickers-Machado	242,809	714,800	74.6	72.9	1.7
Rindge	83,262	139,737	62.7	59.4	3.3
Rubel	74,689	42,264	36.1	34.9	1.2

	DECEMBER—1945			June 1945	Increase or*
	Oil Barrels	Water Barrels	Percent Cut	Percent Cut	Decrease
LOS ANGELES BASIN—Continued					
Moynier	3,304	289	8.0	9.2	1.2*
Sentous	31,056	5,482	15.0	17.3	2.3*
LONG BEACH	804,616	2,582,498	76.2	75.9	.3
Old Area	788,417	2,505,707	76.1	75.7	.4
Upper	780,796	2,501,296	76.2	76.0	.2
DeSoto	7,621	4,411	36.7	43.0	6.3*
Northwest Extension Area	16,199	76,791	82.6	80.6	2.0
MONTEBELLO—Main Area	289,612	1,012,612	77.7	79.2	1.5
Baldwin 1-2-3	212,542	764,006	78.2	79.9	.7*
East Area	5,047	54,418	91.5	91.1	.4
Crus	133	1,901	93.5	91.3	2.2
Nutt	4,914	52,517	91.4	91.0	.4
West Area	72,023	194,188	72.9	73.6	.7*
Fifth Zone	6,193	56,229	90.1	91 6	.5*
Sixth Zone	3,711	10,990	74.8	79.0	4.2*
Masser Zone	17,814	58,357	76.6	78.9	2.3*
Seventh Zone	7,806	14,579	65.1	62.6	2.5
Eighth Zone	27,318	50,618	64.9	60.1	4.8
Ninth Miocene	9,181	3,415	27.1	30.3	3.2*
PLAYA DEL REY	66,678	331,538	83.3	82.1	1.2
Del Rey Hills Area	16,197	12,893	44.3	58.9	14.6*
Venice Area	50,481	318,645	86.3	85.0	1.3
POTRERO	35,330	30,697	46.5	40.0	6.5
Central Area	21,827	25,433	53.8	40.8	13.0
East Area	12,099	4,409	26.7	34.5	7.8*
Potrero No. 2	2,815	252	8.2	4.5	3.7
Other Pools	9,284	4,157	30.9	47.1	16.2*
West Area	1,404	855	37.8	45.9	8.1*
RICHFIELD	223,082	170,064	43.3	42.5	.8
East Area	110,036	97,892	47.1	45.3	1.8
West Area	113,046	72,172	39.0	39.1	.1*
ROSECRANS-ATHENS	167,119	140,039	45.6	47.4	1.8*
Rosecrans Area	128,405	70,740	35.5	36.7	1.2*
Maxwell-Hoge	17,047	35,666	67.7	66.5	1.2
Zinns	17,047	17,162	50.2	52.6	2.4*
Miocene	94,311	17,912	16.0	17.2	1.2*
Seventh	63,764	12,586	16.5	18.6	2.1*
Eighth	21,136	4,365	17.1	18.5	1.4*
Bank (Miocene 7 and 8)	9,411	961	9.3	8.8	.5
Athens Area	38,714	69,299	64.1	67.7	3.6*
Upper	9,035	23,986	72 6	83.6	8.0*
Lower	21,048	44,274	67.8	63.4	4.4
Miocene	8,631	1,039	10 7	10 0	7
SANTA FE SPRINGS—All Pools	517,220	1,956,584	79 1	78 5	6
SEAL BEACH—North Block	270,480	775,881	74.1	72.4	1.7
Selover	5,188	32,610	86.3	85.1	1.2
San Gabriel	5,054	59	1.2	.4	.8
Wasem	15,427	6,349	29 2	19.9	9.3
McGrath	110,619	7,597	6.4	6 8	.4*
South Block—Bixby-Selover	43,676	503,964	92.0	90.7	1.3
Wasem	66,046	210,946	76.2	73.8	2.4
McGrath	24,470	14,356	37.0	35.6	1.4
TORRANCE-HERMOSA	272,580	163,837	37.5	37.2	.3
Hermosa Area	2,343	839	26.4	24.4	2.0
Torrance Area	245,171	157,768	39.2	38.7	5
Main	159,279	100,441	38.7	38.7	....
Thirty-four	35,199	40,083	53.2	49.8	3.4
D. & B.	12,656	8,487	40.1	39.4	.7
Vesta	38,037	8,757	18.7	17.1	1.6
Torrance Extension Area	25,066	5,230	17.3	19.6	2.3*
WHITTIER	31,005	114,407	78.7	77.9	.8
Central Area	26,902	109,053	80.2	79.3	.9
La Habra Area	1,522	682	30 9	22 3	8.6
Rideout-Heights Area	2,581	4,672	64.4	60.7	3.7
WILMINGTON	2,956,101	622,751	17.4	15.6	1.8
Fault Block I (T)	320,315	41,371	11.4	11.3	.1
Tar-Ranger-Terminal	225,155	36,780	14.0	13.2	.8
Ford	95,160	4,591	4.6	5.4	.8*
Fault Block II (T)	572,134	38,287	6.3	4.1	2.2
Tar-Ranger	154,519	16,927	9.9	8.8	1.1
Terminal U & L	317,232	19,229	5.7	2.7	3.0
Ford	88,072	1,911	2.1	2.1	....
U. P.	12,311	220	1.8	1.1	.7
Fault Block III (T)	353,704	12,242	3.3	2.5	.8
Tar-Ranger	156,669	4,847	3.0	3.1	.1*
Upper Terminal	145,693	3,217	2.2	1.3	.9
Lower Terminal	47,523	3,074	6.1	2.2	3.9
U. P.	3,819	1,104	22.4	21.4	1.0
Fault Block IV (H)	767,672	226,538	22.8	22.5	.3
Tar	9,960	643	6.1	1.7	4.4
Terminal U & L	737,898	225,063	23.4	22.3	1.1
Ford	19,814	832	4.0	1.2	2.8
Fault Block IV & V (H) Ranger	445,244	19,445	4.2	3.5	.7
Fault Block V (H) Terminal	46,359	93,149	66.8	59.9	6.9
Town Lot Area	450,673	191,719	29.8	27.9	1.9
Tar-Ranger-Terminal	429,246	184,276	30.0	28.0	2.0
Ford	21,427	7,443	25.8	26.6	.8*
OTHER FIELDS	115,500	119,415	50.8	69.4	18.6*
BUENA PARK	3,351	3,244	49.2	45.5	3.7
East Area	1,386	2,758	66.6	57.2	9.4
West Area	1,965	486	19.2	8.5	10.7
CHINO	....	....	....	....	....
KRAEMER	2,688	2,735	50.4	49.7	.7
LAWNDALE	626	5,415	89.6	88.2	1.4
LOS ANGELES DISTRICT	15,152	85,947	85.0	85.1	.1*
BEVERLY HILLS	3,219	8,518	72.6	75.7	3.1*
LOS ANGELES	4,960	44,640	90.0	90.0	....
SALT LAKE	6,973	32,789	82.5	82.5	....
NEWPORT BEACH	74,338	7,645	9.3	51.3	42.0*
PUENTE HILLS	....	....	....	64.3	....
SANSINENA	3,152	95	2.9	.7	2.2
TURNBULL	4,950	4,291	46.4	40.9	5.5
WESTERN AVENUE	895	549	38.0	40.1	2.1*
YORBA LINDA	10,348	9,494	47.8	60.8	13.0*
Shell	3,062	780	20.3	13.7	6.6
Smith	7,286	8,714	54.5	80.3	25.8*
LOS ANGELES BASIN TOTAL	9,253,475	11,190,927	54.7	53.9	.8
STATE TOTAL	25,992,373	36,373,107	58.3	58.2	.1
CONDENSATE PRODUCTION					
Coles Levee South	89,665	5,010	5.3	....	....
Poloma	131,301	5,853	4.3	....	....
TOTAL	220,966	10,863	4.7	....	....

*—Decrease.

More tons of "know-how"—

ASA Standards cover welding flanges only in sizes through 24", but when a flange becomes part of a pressure vessel, big ones like this are often required. And when you see one of these big ones you can be pretty sure it was made by Taylor Forge because we have been the leading suppliers of such flanges for the manufacturers of pressure vessels for more than 25 years.

Of course the problems attending the design and fabrication of boilers and other pressure vessels merge with and overlap those in the piping field. So the knowledge gained in working with boiler manufacturers has made a vital contribution to our knowledge of what constitutes good piping design.

THE knowledge of piping design and related forging technique accumulated through years of solving all kinds of unusual problems has been drawn upon fully in the design and manufacture of our standard line of WeldELLS and other Taylor Forge fittings for pipe welding. It has resulted in fittings of advanced engineering design with features which add to their strength, service life and convenience—others that speed up the job and lower the cost of pipe installation.

Check the features of WeldELLS listed opposite. Here are features that are not combined in any other welding fittings. Surely you want every one of these features in *your* welding fittings. You get them only in WeldELLS and other Taylor Forge fittings, for in the opinion of those best qualified to know, WeldELLS alone "have everything"!

WeldELLS alone combine these features:

- **Seamless** — greater strength and uniformity.
- **Tangents** — keep weld away from zone of highest stress—simplify lining up.
- **Precision quarter-marked ends** —simplify layout and help insure accuracy.
- **Selective reinforcement**—provides uniform strength.
- **Permanent and complete identification marking**—saves time and eliminates errors in shop and field.
- **Wall thickness never less than specification minimum** — assures full strength and long life.
- **Machine tool beveled ends** — provides best welding surface and accurate bevel and land.
- **The most complete line of Welding Fittings and Forged Steel Flanges in the World**—insures complete service and undivided responsibility.

WeldELLS have everything

TAYLOR FORGE & PIPE WORKS, General Offices & Works: Chicago, P.O. Box 485
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Distributed in California by:
PETROLEUM EQUIPMENT COMPANY
Los Angeles and San Francisco

CALIFORNIA DRILLING WELLS 1945

	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
SAN JOAQUIN VALLEY												
Ant Hill	1	2	4	2	1	3	3	2	3	1	1	
Antelope Hills	.....	2	.....	.....	.....	.....	.....	1	1	.....	.....	.....
Antelope Plains	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Arvin	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bellevue	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Belridge—North	4	4	3	4	3	2	2	5	3	.....	.....	.....
Belridge—South	3	3	3	3	3	2	4	.....	2	1	1	5
Blackwell's Corner	.....	.....	.....	.....	.....	2	1	.....	.....	.....	.....	.....
Brundage	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Buena Vista Hills	16	16	15	13	15	14	9	8	6	1	1	2
Burrel	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Canal	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Canfield-Gosford	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Canfield Ranch	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Coalinga—East	1	2	2	3	4	2	5	5	5	5	1	2
Coalinga—Nose	.....	.....	1	1	2	1	1	1	.....	.....	.....	.....
Coalinga—West	2	1	3	1	.....	.....	.....	2	1	1	.....	.....
Coles Levee—North	2	2	2	2	3	3	2	1	1	.....	.....	1
Coles Levee—South	2	4	3	2	2	2	2	2	1	1	1	1
Edison	3	1	2	2	1	2	6	8	6	10	8	14
Elk Hills	26	23	21	11	11	11	11	7	6	8	8	8
Fruitvale	2	2	4	4	2	.....	1	1	1	1	.....	.....
Greeley	5	4	5	4	4	4	3	3	3	3	3	3
Helm	4		3	3	4	1	4	4	6	4	4	5
Jacalitos	4		3	4	5	5	2	1	3	2	2	2
Kern Front	7	7	7	1	3	1	3	3	2	3	7	5
Kern River	3	1	2	2	2	4	.....	1	1	1	2	1
Kettleman North Dome	6	8	7	6	5	7	5	6	8	6	7	7
Lanare	.....	1	1	.....	1	.....	2	2	2	3	2	3
Lost Hills	1	1	3	2	2	1	1	1	1	3	2	3
McClung	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McKittrick	3	3	2	1	1	3	4	5	4	4	7	3
Midway-Sunset	8	7	4	7	2	2	6	5	2	1	2	7
Mountain View	2	2	1	1	2	.....	.....	.....	1	1	.....	.....
Mount Poso	1	.....	1	1	.....	2	2	.....	2	2	6	1
Paloma	4	5	8	9	8	11	8	7	7	6	9	7
Pleasant Valley	1	3	3	3	1	1	1	1	1	1	1	1
Pyramid Hills	3	1	1	1	1	.....	.....	.....	1	1	1	.....
Race Track	.....	.....	1	1	2	3	1	2	1	1	.....	.....
Raisin City	.....	.....	1	.....	.....	2	.....	1	1	1	1	.....
Rio Bravo	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Riverdale	2	2	2	1	.....	1	1	.....	.....	.....	1	1
Rosedale Ranch	.....	.....	.....	.....	.....	1	2	1	2	1	1	1
Round Mountain	2	1	1	2	4	4	3	4	2	1	2	1
Santiago	.....	.....	.....	.....	.....	.....	.....	1	3	3	3	2
Sheep Springs	1	1	.....	1	.....	.....	1	.....	.....	1	.....	1
Strand—East	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Strand—West	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tejon	6	2	2	1	1	2	2	1	.....	1	3	4
Ten Section	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Union Avenue	.....	.....	.....	.....	.....	.....	.....	1	1	1	.....	.....
Wasco	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wheeler Ridge	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Miscellaneous	1	1	2	2	3	4	2	2	2	2	2	1
TOTAL SAN JOAQUIN VALLEY	128	122	123	101	98	103	100	95	93	82	89	94
COASTAL AREA												
Aliso Canyon	3	3	3	2	2	3	2	2	1	2	4	3
Bradley Canyon	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Capitan	1	1	1	2	2	2	3	2	3	2	2	1
Del Valle	1	.....	.....	1	.....	2	1	1	1	.....	.....	1
Elwood	1	1	1	1	1	1	1	1	1	1	1	1
Gato Ridge	2	1	2	1	1	.....	1	1	.....	.....	1	.....
Newhall-Potrero	2	1	2	3	3	2	1	.....	.....	.....	1	1
Oak Canyon	2	2	2	2	1	1	2	2	2	1	1	1
Oxnard	.....	.....	.....	.....	.....	1	1	1	1	.....	.....	.....
Padre Canyon	1	1	1	.....	.....	.....	1	2	1	.....	.....	2
Ramona	.....	.....	.....	.....	1	2	3	3	2	2	.....	4
Rincon	3	3	3	3	4	3	3	4	4	2	1	1
San Martinez	1	2	.....	1	1	1	2	2	1	1	1	.....
San Miguelito	2	2	2	2	2	2	2	2	1	2	3	2
Santa Barbara	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Santa Maria	2	1	1	1	3	3	2	2		3	4	3
Santa Maria Valley	8	10	10	8	11	17	14	11		8	5	7
Summerland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ventura Avenue	12	12	12	10	12	12	10	10	10	9	8	9
Ventura-Newhall	15	13	15	15	13	16	14	15	11	7	6	8
Watsonville	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zaca Creek	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
"Miscellaneous"	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
TOTAL COASTAL BASIN	56	53	56	53	57	68	63	61	50	40	38	44
LOS ANGELES BASIN												
Brea-Olinda	.....	1	1	1	1	1	.....	.....	.....	.....	1	1
Buena Park	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Coyote—East	1	1	3	3	3	2	3	1	1	1	2	2
Coyote—West	4	3	5	3	3	2	3	4	4	3	1	1
Dominguez	2	2	2	1	2	3	2	2	2	1	1	.....
El Segundo	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Huntington Beach	7	6	7	5	6	7	6	4	4	6	6	4
Inglewood	1	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Lawndale	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Long Beach	3	3	3	3	2	3	2	1	1	3	2	2
Los Angeles-Salt Lake	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Montebello	1	1	2	1	1	1	1	1	2	1	1	1
Newport-Costa Mesa	2	1	1	4	5	3	6	9	5	8	5	3
Playa Del Rey	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
Potrero	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Richfield	3	.....	1	.....	.....	2	2	2	4	3	2	3
Rosecrans	4	3	1	.....	1	1	.....	.....	.....	1	1	1
Sansinena	.....	.....	.....	.....	.....	1	1	1	.....	1	1	1
Santa Fe Springs	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	.....
Seal Beach	5	3	4	4	4	5	1	3	3	2	3	2
Torrance	7	2	3	4	2	3	3	1	3	2	2	2
Turnbull Canyon	.....	.....	.....	1	1	1	.....	.....	.....	.....	.....	.....
Whittier	1	1	1	.....	2	1	1	.....	.....	.....	.....	.....
Wilmington	7	10	11	11	12	12	11	14	14	16	14	11
Yorba Linda	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Miscellaneous	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
TOTAL LOS ANGELES BASIN	49	40	46	43	46	49	43	43	43	48	42	34
EXPLORATORY												
Outpost Wells	20	23	25	22	29	27	29	20	22	28	32	30
Wildcats	25	26	29	25	29	32	25	28	30	26	21	24
Gas Wells	9	6	6	7	2	2	4	4	3	5	8	6
TOTAL CALIFORNIA	287	270	285	251	261	281	264	251	241	229	230	232

INITIAL PRODUCTION, NEW WELLS 1945

	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
SAN JOAQUIN VALLEY												
Ant Hill	239	.....	.....	109	189	.....	328	26	.....	409	23	102
Antelope Hills	505	.....	.....	.....	.....	.....	49	.....	19	.....	.....	.....
Antelope Plains	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Arvin	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bellevue	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Belridge—North	.....	.....	2,340	.....	260	.....	483	.....	6	110	.....	.....
Belridge—South	616	442	470	465	415	376	346	83	190	341	41	.....
Blackwell's Corner	.....	.....	.....	.....	.....	.....	79	56	.....	.....	.....	.....
Brundage	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Buena Vista Hills	6,303	4,806	6,526	7,747	9,947	6,288	5,344	2,887	725	847	454	607
Burrel	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Canal	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Canfield-Gosford	.....	.....	192	.....	.....	.....	.....	.....	.....	.....	.....	.....
Canfield Ranch	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Coalinga—East	139	.....	149	395	428	408	1,322	749	759	1,289	451	242
Coalinga—Nose	.....	.....	.....	.....	.....	51	.....	.....	409	.....	.....	.....
Coalinga—West	158	663	61	247	8	.....	.....	.....	74	.....	20	.....
Coles Levee—North	.....	387	272	751	443	165	.....	638	.....	652	.....	.....
Coles Levee—South	435	.....	51	221	.....	107	379	502	168	.....	203	.....
Dyer Creek	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Edison	1,109	312	930	583	191	686	322	220	1,805	6,606	7,500	4,737
Elk Hills	13,021	13,316	13,728	7,579	4,315	2,082	3,777	2,494	10	462	257	51
Fruitvale	54	15	.....	10	119	21	.....	.....	.....	.....	24	.....
Greeley	451	.....	.....	386	284	514	.....	1,451	.....	383	.....	345
Helm	339	221	578	477	91	.....	177	451	.....	825	195	.....
Jacalitos	1,287	442	1,094	232	706	227	1,277	.....	135	171	63	.....
Kern Front	34	183	211	446	96	387	87	290	319	190	86	520
Kern River	.....	.....	.....	71	349	132	212	.....	5	42	34	34
Kettleman North Dome	626	820	64	41	1,369	.....	2,435	92	770	660	413	860
Lanare	.....	.....	.....	165	.....	94	133	520	446	33	494	197
Lost Hills	.....	.....	41	147	42	38	.....	.....	.....	.....	101	47
McClung	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McKittrick	.....	24	123	37	65	.....	1,673	1,082	849	1,293	556	1,743
Midway-Sunset	357	240	460	506	355	26	172	255	195	.....	377	.....
Mountain View	.....	.....	249	.....	.....	.....	.....	201	.....	.....	.....	.....
Mount Poso	274	206	150	45	24	34	.....	92	.....	19	17	281
Paloma	1,057	.....	675	.....	550	.....	2,135	540	1,520	2,248	.....	988
Pleasant Valley	774	.....	.....	.....	897	.....	.....	.....	.....	.....	.....	602
Pyramid Hills	78	58	40	.....	.....	.....	.....	.....	.....	.....	.....	.....
Race Track	.....	.....	.....	800	495	.....	718	348	888	24	180	.....
Raisin City	631	.....	.....	4,930	.....	.....	512	.....	.....	.....	.....	183
Rio Bravo	.....	.....	.....	.....	.....	.....	.....	198	.....	.....	.....	.....
Riverdale	202	238	.....	239	135	.....	.....	89	.....	.....	.....	.....
Rosedale Ranch	.....	.....	.....	122	.....	.....	.....	.....	.....	45	.....	.....
Round Mountain	80	.....	76	163	236	498	661	352	179	405	101	87
Santiago	.....	.....	.....	.....	.....	.....	.....	919	1,020	750	4	1,067
Sheep Springs	221	.....	240	.....	.....	.....	.....	365	.....	.....	.....	.....
Strand—East	.....	.....	1,410	.....	.....	.....	.....	.....	.....	.....	.....	.....
Strand—West	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tejon	.....	139	86	105	.....	51	107	106	.....	.....	109	329
Ten Section	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Union Avenue	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	200	.....
Wasco	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wheeler	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Miscellaneous	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45	.....
TOTAL SAN JOAQUIN VALLEY	29,290	22,512	30,216	27,019	22,009	12.185	22,728	15,006	10,491	17.804	11,948	13,162
COASTAL AREA												
Aliso Canyon	.....	52	.....	35	1,579	.....	.....	1,504	749	.....	.....	773
Bradley Canyon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Capitan	.....	1,374	.....	.....	.....	.....	237	521	456	1,046	413	897
Del Valle	.....	355	.....	.....	.....	.....	598	998	.....	877	.....	.....
Elwood	210	.....	270	.....	242	.....	252	.....	.....	123	.....	99
Gato Ridge	487	176	.....	46	738	174	.....	.....	.....	.....	.....	.....
Hasley Canyon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Newhall-Potrero	.....	404	725	.....	160	140	.....	132	.....	.....	.....	.....
Oak Canyon	.....	258	.....	.....	226	32	.....	.....	.....	215	.....	.....
Oxnard	.....	.....	.....	46	.....	.....	.....	.....	.....	100	.....	.....
Padre Canyon	655	.....	.....	711	.....	.....	.....	.....	270	803	.....	.....
Ramona	.....	.....	.....	196	.....	.....	94	320	450	.....	.....	.....
Rincon	123	14	248	281	361	315	53	49	127	246	228	.....
San Martinez	186	.....	903	.....	.....	1,920	.....	362	432	635	.....	.....
San Miguelito	431	.....	394	.....	.....	256	.....	.....	258	.....	.....	890
Santa Barbara	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Santa Maria	456	.....	.....	.....	.....	58	460	101	501	29	448	471
Santa Maria Valley	1,758	1,106	1,249	1,991	1,728	485	1,810	487	1,226	700	1,184	232
Summerland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ventura Avenue	1,372	5,004	4,538	1,612	1,565	267	3,622	1,309	1,781	5,598	2,130	1,727
Ventura-Newhall	396	636	91	489	350	381	243	175	672	180	135	85
Watsonville	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zaca Creek	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
TOTAL COASTAL BASIN	6,074	9,379	8,418	5,407	6,949	4,028	7,369	5,958	6,922	10,552	4,538	5,174
LOS ANGELES BASIN												
Brea-Olinda	.....	.....	.....	.....	.....	.....	27	.....	.....	.....	.....	226
Buena Park	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Coyote—East	260	.....	.....	48	60	110	.....	106	.....	.....	46	29
Coyote—West	.....	668	91	1,203	398	1,059	123	886	1,024	146	492	351
Dominguez	24	509	.....	15	.....	722	466	349	.....	123	70	363
El Segundo	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Huntington Beach	954	1,116	892	808	648	183	983	905	241	161	166	331
Inglewood	.....	.....	.....	.....	.....	.....	83	.....	.....	.....	.....	.....
Lawndale	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Long Beach	.....	.....	.....	.....	.....	.....	.....	46	.....	.....	10	41
Los Angeles-Salt Lake	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Montebello	.....	87	.....	156	19	38	.....	126	122	115	20	.....
Newport-Costa Mesa	.....	67	.....	.....	259	238	669	1,350	948	715	417	224
Playa Del Rey	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Potrero	.....	.....	.....	315	.....	.....	.....	.....	.....	.....	.....	.....
Richfield	254	91	537	96	249	.....	27	136	.....	253	37	16
Rosecrans	.....	144	356	176	.....	.....	193	.....	.....	.....	.....	141
Sansinena	.....	.....	.....	.....	.....	.....	.....	.....	102	.....	.....	.....
Santa Fe Springs	.....	.....	.....	.....	.....	.....	.....	53	.....	.....	.....	.....
Seal Beach	107	1,271	.....	282	1,708	375	2,551	.....	.....	2,724	.....	2,190
Torrance	199	333	186	206	346	142	182	56	73	253	90	160
Turnbull Canyon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Whittier	.....	.....	.....	19	70	.....	.....	.....	.....	.....	.....	.....
Wilmington	1,544	1,673	2,428	1,933	2,226	1,575	2,767	1,616	2,143	1,792	2,033	2,363
Yorba Linda	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
TOTAL LOS ANGELES BASIN	3,342	5,959	4,490	5,257	5,983	4,442	8,071	5,629	4,653	6,282	3,381	6,437
TOTAL CALIFORNIA	38,706	37 850	43,124	37,683	34,941	20,655	38,168	26,593	22,066	34,638	19,867	24,773

Both drill pipe and tool joint are completely controlled by one company from engineering research and design through all manufacturing processes to the finished product.

The precision assembly of this drill pipe and tool joint assures the user of maximum efficiency and uniform strength throughout the string.

Because this unit is manufactured and controlled by one company there is the added advantage of dealing with one reliable source of supply—one order to place—and one company responsibility.

SPANG · CHALFANT

DIVISION OF THE NATIONAL SUPPLY COMPANY

DISTRICT SALES OFFICES: ATLANTA; BOSTON; CHICAGO; DENVER; DETROIT; HOUSTON; LOS ANGELES; NEW YORK; PHILADELPHIA; PITTSBURGH; ST. LOUIS; SAN FRANCISCO; TULSA.
EXECUTIVE OFFICES: PITTSBURGH, PA.

CALIFORNIA OIL WELLS COMPLETED 1945

	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	Total 1945	Total 1944
SAN JOAQUIN VALLEY														
Ant Hill	2	...	...	3	2	...	2	1	...	3	1	2	16	...
Antelope Hills	2	...	...	...	...	...	1	...	1	...	...	...	4	9
Antelope Plains	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Arvin	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bellevue	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Belridge—North	...	...	1	...	1	...	1	...	1	3	...	...	7	4
Belridge—South	16	13	15	13	11	10	13	3	6	9	2	...	111	204
Blackwell's Corner	...	...	...	...	...	...	4	2	...	...	...	...	6	...
Brundage	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Buena Vista Hills	14	13	16	19	20	16	16	11	5	6	2	2	140	67
Burrel	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Canal	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Canfield-Gosford	...	...	1	...	...	...	...	...	...	...	...	...	1	2
Canfield Ranch	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Coalinga—East	3	...	3	3	6	6	6	6	6	9	6	3	57	94
Coalinga—Nose	...	...	...	...	...	1	...	...	1	...	...	...	2	4
Coalinga—West	3	4	1	4	3	...	...	...	2	...	1	...	18	56
Coles Levee—North	...	1	1	1	1	1	...	2	...	1	...	...	8	...
Coles Levee—South	1	...	1	1	...	1	1	1	1	...	1	...	8	18
Dyer Creek	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Edison	7	3	3	3	2	3	1	1	5	5	9	9	51	27
Elk Hills	31	34	44	31	18	11	21	13	1	5	3	1	213	108
Fruitvale	3	1	...	1	2	1	...	...	...	...	1	...	9	22
Greeley	1	...	...	1	1	3	...	2	...	1	...	1	10	7
Helm	2	1	3	2	1	...	1	4	...	4	1	...	19	18
Jacalitos	4	3	4	2	2	2	5	...	1	2	1	...	26	10
Kern Front	1	3	3	8	1	3	2	6	5	2	2	8	44	80
Kern River	...	...	...	5	11	3	4	...	1	1	1	1	27	33
Kettleman North Dome	3	1	1	1	3	...	3	1	1	3	1	1	19	13
Lanare	...	...	...	1	...	1	1	2	2	1	3	1	12	1
Lost Hills	...	...	1	3	1	1	...	...	...	...	4	2	12	3
McClung	...	...	...	...	...	...	...	...	...	...	...	...	...	...
McKittrick	...	1	1	1	1	...	6	6	5	3	3	6	33	33
Midway-Sunset	7	5	6	4	8	1	3	6	5	...	6	...	51	138
Mountain View	...	...	1	...	...	...	...	1	...	...	...	...	2	5
Mount Poso	4	6	5	1	1	1	...	2	...	1	1	4	26	26
Paloma	2	...	1	...	1	...	5	1	2	3	...	2	17	15
Pleasant Valley	2	...	...	...	2	...	...	...	...	...	...	1	5	11
Pyramid Hills	3	4	1	...	...	...	...	...	...	...	...	...	8	...
Race Track	...	...	...	1	1	...	3	1	2	1	1	...	10	...
Raisin City	2	...	...	2	...	...	2	...	...	...	...	1	7	13
Rio Bravo	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Riverdale	2	1	...	2	1	...	...	1	...	...	...	...	7	19
Rosedale Ranch	...	...	...	1	...	...	...	1	...	2	...	...	4	...
Round Mountain	2	...	1	2	2	3	6	4	2	5	1	1	29	15
Santiago	...	...	...	...	...	...	...	1	1	1	1	1	5	...
Sheep Springs	1	...	1	...	...	...	...	1	...	...	...	...	3	...
Strand—East	...	...	1	...	...	...	...	...	...	...	...	...	1	3
Strand—West	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Tejon	...	3	2	1	...	1	2	1	...	...	1	2	13	5
Ten Section	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Union Avenue	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Wasco	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wheeler Ridge	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Miscellaneous	...	...	...	...	...	...	...	...	...	...	2	...	2	28
TOTAL SAN JOAQUIN VALLEY	118	97	118	117	103	69	109	81	56	71	56	49	1,044	1,088
COASTAL AREA														
Aliso Canyon	...	1	...	1	2	...	...	1	1	...	...	1	7	8
Bradley Canyon	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Capitan	...	1	...	...	...	...	1	1	1	2	1	2	9	...
Del Valle	...	1	...	...	...	...	1	1	...	1	...	...	4	4
Elwood	1	...	1	...	1	...	1	...	...	1	...	1	6	3
Gato Ridge	1	1	...	1	2	1	...	...	...	...	...	...	6	4
Hasley Canyon	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Newhall-Potrero	...	1	1	...	1	1	...	1	...	...	...	...	5	5
Oak Canyon	...	2	...	...	1	1	...	...	...	1	...	...	5	2
Oxnard	...	...	...	1	...	...	...	...	...	1	...	...	2	*
Padre Canyon	1	...	...	1	...	...	...	...	1	1	...	...	4	4
Ramona	...	...	...	1	...	...	1	1	2	...	...	...	5	...
Rincon	1	1	1	1	2	2	1	1	1	2	1	...	14	14
San Martinez	1	...	2	...	...	1	...	1	1	1	...	...	7	7
San Miguelito	1	...	1	...	...	1	...	...	1	...	...	1	5	5
Santa Barbara	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Santa Maria	1	...	...	...	...	1	3	1	2	1	1	2	12	20
Santa Maria Valley	8	3	6	11	9	4	10	5	9	3	7	2	77	85
Summerland	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ventura Avenue	3	6	5	5	5	2	4	4	3	5	4	4	50	35
Ventura-Newhall	5	6	2	5	4	4	3	2	5	1	1	2	40	32
Watsonville	...	...	...	...	...	...	...	...	...	...	...	...	...	*
Zaca Creek	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Miscellaneous	...	...	...	...	...	...	...	...	...	...	...	...	...	...
TOTAL COASTAL BASIN	23	23	19	27	27	18	25	19	27	20	15	15	258	228
LOS ANGELES BASIN														
Brea-Olinda	...	...	...	...	...	...	1	...	...	...	...	1	2	7
Buena Park	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Coyote—East	1	...	...	1	1	1	...	1	...	...	1	1	7	12
Coyote—West	...	2	1	4	1	4	1	2	3	1	3	1	23	20
Dominguez	1	1	...	1	...	1	1	2	...	1	2	1	11	10
El Segundo	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Huntington Beach	5	4	6	6	4	2	5	6	4	1	1	2	46	71
Inglewood	...	...	...	...	...	...	1	...	...	...	...	...	1	6
La Mirada	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lawndale	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Long Beach	...	...	...	...	...	...	...	1	...	...	1	1	3	6
Los Angeles-Salt Lake	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Montebello	...	1	...	1	1	1	...	1	1	1	1	...	8	10
Newport-Costa Mesa	...	1	...	...	3	3	6	11	9	8	5	3	49	...
Playa Del Rey	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Potrero	...	...	...	1	...	...	...	...	...	...	...	...	1	1
Richfield	1	1	2	1	1	...	1	2	...	2	1	1	13	7
Rosecrans	...	1	3	1	...	...	1	...	...	...	...	1	7	5
Sansinena	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Santa Fe Springs	...	...	...	...	...	...	...	1	...	...	...	...	1	...
Seal Beach	1	3	...	2	1	1	4	...	...	3	...	2	17	7
Torrance	6	7	5	4	6	3	3	2	2	4	2	3	47	32
Turnbull Canyon	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Whittier	...	...	...	2	1	...	...	...	...	...	...	...	3	...
Wilmington	12	8	10	11	13	9	15	12	13	13	17	15	148	144
Yorba Linda	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Miscellaneous	...	...	...	...	...	...	...	...	...	...	...	...	...	...
TOTAL LOS ANGELES BASIN	27	29	27	35	32	25	39	41	33	34	34	32	388	347
EXPLORATORY														
Outpost Wells	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wildcats	...	...	...	...	...	...	...	...	...	...	...	...	...	48
Gas Wells	3	4	6	5	7	...	5	7	4	5	5	5	56	...
TOTAL CALIFORNIA	168	149	164	179	162	112	173	141	116	125	105	96	1,746	1,711

FIELD & POOL PRODUCTION
CALIFORNIA — 1945
DAILY AVERAGE

Prepared by the Conservation Committee of California Oil Operators

	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	Year Average
SAN JOAQUIN VALLEY													
BELRIDGE NORTH	7,279	7,145	7,331	6,616	6,697	6,355	6,265	6,227	5,838	5,732	5,365	5,548	6,364
Shallow	77	87	87	85	96	100	96	93	85	62	59	57	82
Temblor	900	890	875	780	733	663	649	815	566	642	639	657	733
"R" Sand	1	.....	1	.....	.....	.....	.....	.....	.....	14	.....	115	11
Wagon Wheel	4,939	4,825	5,004	4,410	4,439	4,328	4,212	4,043	3,979	3,944	3,690	3,838	4,302
"Y" Sand	1,362	1,343	1,364	1,341	1,429	1,264	1,308	1,276	1,208	1,070	977	881	1,235
BELRIDGE SOUTH	12,769	13,018	13,140	13,145	13,319	13,614	13,463	13,129	12,302	12,324	10,754	10,741	12,642
South Belridge Area—Shallow	12,757	13,005	13,129	13,130	13,307	13,603	13,451	13,119	12,289	12,313	10,742	10,725	12,630
Middle Belridge Area—Shallow	12	13	11	15	12	11	12	10	13	11	12	16	12
BUENA VISTA	34,049	35,490	38,135	42,956	50,068	53,300	48,491	49,204	45,521	40,342	40,702	39,881	43,215
Buena Vista Front	3,778	3,903	3,926	3,766	3,812	3,806	3,806	3,978	4,407	4,632	4,424	4,463	4,059
Buena Vista Hills	30,271	31,587	34,209	39,190	46,256	49,494	44,685	45,226	41,114	35,710	36,278	35,418	39,156
Sec. 27	20,212	21,847	24,532	29,761	36,912	40,275	35,404	36,127	31,895	26,426	27,020	26,208	29,756
Others	10,059	9,740	9,677	9,429	9,344	9,219	9,281	9,099	9,219	9,284	9,258	9,210	9,400
CANAL—Stevens	3,524	3,414	3,547	3,493	3,671	3,528	3,548	3,705	3,505	2,964	2,977	2,779	3,388
COALINGA EAST	88,397	85,602	84,481	84,216	87,404	88,074	84,317	83,178	77,633	75,368	75,478	75,029	82,417
Main Area	22,357	21,945	21,675	21,323	21,360	21,663	21,973	22,313	18,328	18,346	18,906	18,520	20,723
Temblor	22,249	21,825	21,555	21,211	21,251	21,575	21,872	22,217	18,233	18,253	18,810	18,430	20,621
Cretaceous	108	120	120	112	109	88	101	96	95	93	96	90	102
Coalinga Nose Area—Eocene	52,275	49,993	49,744	50,043	52,407	52,784	49,067	47,404	45,995	45,531	45,352	44,869	48,781
Coalinga Northeast Area—Eocene	10,381	10,166	9,812	9,658	10,073	9,726	9,323	9,719	9,695	7,900	7,638	8,001	9,336
Pleasant Valley Area—Eocene	3,384	3,498	3,250	3,192	3,564	3,901	3,954	3,742	3,615	3,591	3,582	3,639	3,577
COALINGA WEST—Main	8,077	8,080	8,396	8,198	7,974	8,031	8,033	7,687	7,762	7,617	7,296	7,010	7,845
COFFEE CANYON—Old Area	1,397	1,321	1,315	1,271	1,299	1,316	1,329	1,321	1,270	1,215	1,244	1,174	1,290
COLES LEVEE NORTH	14,366	14,281	14,310	14,500	15,107	15,038	14,691	15,773	19,693	20,194	20,159	22,261	16,711
Northwest Area	74	79	70	70	71	60	70	77	71	72	72	72	72
Richfield Western Area	14,292	14,202	14,240	14,430	15,036	14,978	14,621	15,696	19,622	20,122	20,087	22,189	16,639
Western	13,072	12,983	13,023	13,220	13,486	13,275	11,899	12,564	15,867	16,341	16,145	17,835	14,147
21-1	1,220	1,219	1,217	1,210	1,550	1,703	1,705	1,903	2,348	2,377	2,491	2,835	1,818
29	.....	.....	.....	.....	.....	.....	1,017	1,229	1,407	1,404	1,451	1,519	674
COLES LEVEE SOUTH (Black Oil)	2,617	2,618	2,616	2,635	2,734	2,701	2,682	2,921	2,351	2,230	2,438	2,308	2,571
EDISON	3,679	3,821	4,224	3,894	4,142	4,161	5,213	5,785	7,170	8,453	9,617	10,892	5,935
First Duff	1,656	1,791	1,743	1,638	1,771	1,759	1,654	1,482	1,406	1,461	1,565	1,508	1,619
Second Duff	1,968	1,983	2,433	2,204	2,348	2,369	2,630	2,608	2,668	2,501	2,503	2,401	2,387
Fairfax Wicker	55	47	48	52	23	33	84	44	36	26	21	53	44
Fractured Schist	.....	.....	.....	.....	.....	.....	845	1,651	3,060	4,465	5,528	6,930	1,885
ELK HILLS	48,350	57,056	59,369	62,918	61,582	62,084	64,470	45,359	14,730	14,587	14,300	14,302	43,198
Central Area	48,344	57,051	59,366	62,918	61,582	62,084	64,470	45,359	14,730	14,587	14,300	14,302	43,197
Upper	47,896	56,928	59,312	62,862	61,528	62,028	64,470	45,359	14,730	14,587	14,300	14,302	43,131
Lower	448	123	54	56	54	56	.....	.....	.....	.....	.....	.....	66
Northwest Area	6	5	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
FRESNO AREA	11,373	11,239	10,725	10,822	11,471	11,281	11,095	11,506	11,462	10,942	11,570	11,542	11,252
BURREL	66	56	50	46	24	41	26	21	17	14	29	14	34
HELM	2,600	2,715	2,745	2,803	3,242	3,315	3,518	3,551	3,362	3,400	4,009	4,227	3,294
Temblor	311	279	343	377	358	371	494	452	465	430	508	645	420
Upper	297	279	343	377	358	371	494	452	465	430	508	645	419
Lower	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Eocene	2,289	2,436	2,402	2,426	2,884	2,944	3,024	3,099	2,897	2,970	3,501	3,582	2,874
LANARE	168	159	144	209	341	296	310	559	880	939	1,185	1,292	542
Miocene	94	85	89	90	93	87	164	330	557	664	944	1,065	357
Eocene	74	74	55	119	248	209	146	229	323	275	241	227	185
PANOCHE CREEK	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
RAISIN CITY	3,478	3,430	3,336	3,363	3,251	3,302	3,047	3,246	3,199	2,849	2,843	2,676	3,166
Miocene	1,860	1,894	1,851	2,085	2,174	2,342	2,150	2,385	2,396	1,958	2,065	1,688	2,083
Eocene	1,618	1,536	1,485	1,278	1,077	960	897	861	803	891	778	988	1,083

FIELD & POOL PRODUCTION
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SAN JOAQUIN VALLEY—Continued	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	Year Average
RIVERDALE	5,061	4,879	4,450	4,401	4,613	4,327	4,194	4,129	4,004	3,740	3,504	3,333	4,216
Miocene	2,068	2,167	2,026	2,097	2,103	2,049	2,068	2,072	2,000	2,111	2,024	1,819	2,049
Eocene	2,993	2,712	2,424	2,304	2,510	2,278	2,126	2,057	2,004	1,629	1,480	1,514	2,167
TURK ANTICLINE	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
FRUITVALE—Martin-Kerneo	8,606	8,802	8,556	8,625	8,374	8,397	8,252	8,136	8,247	8,400	8,245	8,059	8,389
GREELEY	14,131	14,291	13,771	14,068	15,289	15,612	16,309	16,136	14,349	11,065	11,005	10,373	13,865
Greeley	852	706	710	741	862	802	812	843	919	873	840	686	805
11-2	13,279	13,585	13,061	13,327	14,427	14,810	15,497	15,293	13,430	10,192	10,165	9,687	13,060
KERN FRONT—All Pools	8,775	9,037	8,838	8,879	8,725	8,752	8,538	8,482	8,643	8,353	8,212	8,385	8,632
KERN RIVER—All Pools	9,723	9,693	9,688	9,605	9,811	10,065	9,879	9,908	9,609	9,316	9,466	9,496	9,688
KETTLEMAN NORTH DOME	40,874	40,153	39,624	38,678	39,691	39,069	40,850	40,481	38,523	37,664	38,178	38,026	39,318
Temblor	32,455	31,829	31,296	30,461	30,424	29,524	30,778	30,007	28,156	28,597	29,133	29,022	30,135
North	16,065	15,557	15,687	14,895	15,380	14,632	15,087	14,700	13,826	14,242	14,186	14,099	14,862
South	16,390	16,272	15,609	15,566	15,044	14,892	15,691	15,307	14,330	14,355	14,947	14,923	15,273
Vaqueros	5,929	5,810	5,749	5,751	6,754	6,877	7,483	7,839	7,608	6,285	6,348	6,279	6,564
Eocene	2,490	2,514	2,579	2,466	2,513	2,668	2,589	2,635	2,759	2,782	2,697	2,725	2,619
LOST HILLS	3,369	3,387	3,345	3,424	3,499	3,425	3,355	3,253	3,222	3,185	3,277	3,472	3,351
Main Area	3,084	3,074	3,088	3,146	3,209	3,152	3,109	2,986	2,957	2,921	3,010	3,219	3,080
Williamson Area	285	313	257	278	290	273	246	267	265	264	267	253	271
McKITTRICK DISTRICT	4,988	5,069	5,044	4,944	5,081	5,072	5,400	5,742	5,904	5,961	6,662	7,761	5,640
ANDERSON 45	.....	.....	.....	.....	.....	.....	287	481	823	693	957	1,384	388
BRUNT	.....	.....	.....	.....	.....	.....	.....	.....	.....	117	287	1,037	122
CYMRIC	877	1,046	951	1,020	1,150	1,091	1,107	1,146	928	954	1,020	973	1,022
McKITTRICK	3,160	3,170	3,194	3,130	3,096	3,150	3,143	3,182	3,106	3,144	3,189	3,149	3,151
McKITTRICK FRONT	934	838	886	779	818	814	848	919	1,030	1,039	1,196	1,174	940
Upper	197	169	224	214	188	161	220	347	437	505	616	622	326
Lower	737	669	662	565	630	653	628	572	593	534	580	552	614
TEMBLOR RANCH	17	15	13	15	17	17	15	14	17	14	13	15	15
54-21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29	2
MIDWAY-MARICOPA DISTRICT	40,087	39,866	39,845	40,217	40,576	39,826	38,853	39,741	39,482	38,704	38,976	38,664	39,566
Lake View	3,144	2,931	3,011	2,817	2,872	2,819	2,616	2,768	2,585	2,450	2,374	2,418	2,733
Gibson	262	229	239	283	294	306	294	251	261	248	328	330	277
Maricopa Flat	748	801	775	794	805	801	771	739	742	736	690	686	757
Midway East	10,218	9,989	10,021	9,968	10,123	9,794	9,614	9,704	9,643	9,760	9,558	9,545	9,828
Midway West	22,411	22,614	22,482	22,986	23,237	22,886	22,401	22,668	22,723	21,718	22,039	21,534	22,472
Quality	1,826	1,852	1,867	1,926	1,831	1,831	1,756	1,769	1,809	1,748	1,753	1,713	1,806
Republic	831	829	804	780	797	772	761	773	732	762	717	734	774
Section 6	647	621	646	663	617	617	637	566	512	462	438	446	572
Santiago	.....	.....	.....	.....	.....	.....	3	503	475	820	1,079	1,258	347
MOUNT POSO DISTRICT	19,580	19,056	18,530	18,510	18,734	18,640	18,007	18,370	18,050	17,285	17,439	17,213	18,279
BAKER	369	417	343	387	357	358	331	333	339	334	317	364	354
DOMINION	360	334	362	345	359	375	423	418	421	405	428	404	386
DORSEY	463	451	461	462	505	502	475	443	441	421	404	387	451
DYER CREEK	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MOUNT POSO—Main Area	16,805	16,208	15,712	15,647	15,660	15,719	15,296	15,536	15,257	14,971	14,875	14,674	15,526
NORTH MOUNT POSO	1,267	1,323	1,375	1,393	1,605	1,466	1,266	1,412	1,390	932	1,212	1,225	1,322
SUNSET	49	66	63	55	63	65	52	72	62	78	75	62	63
VEDDER	267	257	214	221	185	155	164	156	140	144	128	97	177
WEST MOUNT POSO	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MOUNTAIN VIEW	2,986	2,936	2,861	2,947	2,729	2,761	2,826	2,705	2,794	2,600	2,729	2,718	2,798
Northwest Area	705	681	664	655	616	642	610	622	645	611	603	584	636
Southeast Area	2,076	2,051	1,979	2,062	1,896	1,911	2,006	1,884	1,976	1,839	1,958	1,963	1,966
Earl Fruit Area	79	64	65	66	62	62	57	57	58	46	51	55	60
Arvin Area	126	140	153	164	155	146	153	142	115	104	117	115	136
PALOMA—Paloma (Black Oil)	852	1,021	982	1,212	1,415	1,987	2,620	2,755	3,073	3,400	4,615	4,732	2,396

FIELD & POOL PRODUCTION
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PALOMA—Paloma (Black Oil)	852	1,021	982	1,212	1,415	1,987	2,620	2,755	3,073	3,400	4,615	4,732	2,396

FIELD & POOL PRODUCTION
CALIFORNIA — 1945
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SAN JOAQUIN VALLEY—Continued	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	Year Average
POSO CREEK DISTRICT	4,341	4,350	4,155	4,403	4,309	4,183	4,146	4,145	4,119	3,806	3,753	3,622	4,109
McVAN	68	74	63	97	101	94	70	79	122	48	74	71	80
PREMIER	4,015	4,070	3,854	4,094	4,048	3,832	3,824	3,834	3,782	3,475	3,355	3,298	3,788
PREMIER EAST	258	206	238	212	160	257	252	232	215	283	324	253	241
RIO BRAVO—Rio Bravo—Vedder	16,281	16,196	16,150	16,052	16,973	17,199	17,341	16,876	16,200	13,325	13,375	13,380	15,776
ROUND MOUNTAIN DISTRICT	8,326	8,045	8,166	8,263	8,355	8,533	8,375	8,320	8,403	8,069	8,171	8,242	8,273
Main Area	5,814	5,683	5,661	5,578	5,454	5,531	5,385	5,297	5,169	5,010	4,954	4,829	5,362
Jewett	773	798	816	826	830	768	791	763	760	751	759	729	780
Vedder	5,041	4,885	4,845	4,752	4,624	4,763	4,594	4,534	4,409	4,259	4,195	4,100	4,582
Northwest Area—Vedder	1,097	1,116	1,121	1,176	1,145	1,145	1,099	1,053	1,149	1,151	1,126	1,235	1,134
Pyramid Area—Vedder	1,003	913	933	1,025	1,014	991	860	938	1,015	1,000	1,006	1,103	983
West Area—Vedder	312	228	264	219	286	206	193	209	225	206	216	181	229
North Sharkstooth	100	105	187	265	456	660	838	823	845	702	869	894	565
STRAND—Stevens	1,630	1,529	1,516	1,568	1,594	1,563	1,473	1,449	1,581	1,636	1,742	1,694	1,581
Upper	616	579	530	589	615	581	494	486	607	723	775	699	608
Lower	1,014	950	986	979	979	982	979	963	974	913	967	995	973
STRAND—EAST	743	698	762	854	864	878	712	678	639	596	577	596	716
TEN SECTION—Stevens	12,106	11,850	11,816	12,124	12,596	12,541	12,614	12,164	10,096	8,444	9,673	8,646	11,219
WASCO	1,767	1,433	1,404	1,627	1,558	1,426	1,383	1,197	1,073	1,155	1,472	980	1,372
Shale	1	.....	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Vedder	1,766	1,433	1,403	1,626	1,557	1,426	1,383	1,197	1,073	1,155	1,472	980	1,372
WHEELER RIDGE—All Pools	238	227	226	240	238	244	235	234	235	236	228	221	233
WILLIAMS—Williams	1,951	2,030	2,020	2,060	1,840	1,800	1,940	1,766	1,711	1,699	1,678	1,727	1,851
OTHER FIELDS—Total	4,371	4,617	4,870	5,773	6,629	7,099	8,210	8,544	8,071	7,905	8,675	8,789	6,977
ANT HILL—Total	438	351	309	374	459	531	657	593	594	787	963	1,060	595
Jewett	313	196	196	232	316	372	514	444	399	395	515	375	357
Others	125	155	113	142	143	159	143	149	195	392	448	685	238
ANTELOPE PLAINS	26	30	27	25	25	24	23	23	.....	.....	.....	.....	17
ARVIN	10	66	42	41	38	29	29	22	38	26	36	24	33
BLACKWELL'S CORNER	114	184	173	142	140	132	101	147	99	235	213	205	157
CANFIELD RANCH	37	34	32	28	20	40	36	38	27	32	37	33	33
BELLEVUE	603	605	545	533	516	569	593	560	555	456	462	456	537
CHICO MARTINEZ	4	.....	13	.....	14	.....	10	14	24	9	.....	5	8
DEVIL'S DEN	.....	.....	.....	.....	15	.....	13	.....	3	11	2	1	4
GOSFORD	77	8	20	41	11	113	237	225	206	163	136	126	115
GOULD HILLS	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
GRAPEVINE	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
JACALITOS ANTICLINE—Total	1,655	1,885	2,181	2,702	3,200	3,393	3,957	4,035	3,562	3,669	4,188	4,098	3,218
Upper	572	584	963	1,378	1,380	1,381	1,460	1,408	1,383	1,495	1,856	1,876	1,315
Lower	1,083	1,301	1,218	1,324	1,820	2,012	2,497	2,627	2,179	2,174	2,332	2,222	1,903
KERN BLUFF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McDONALD ANTICLINE	.....	.....	.....	.....	.....	.....	8	16	22	14	39	42	12
McCLUNG	110	116	108	74	90	59	53	32	37	39	36	36	66
PYRAMID HILLS	440	419	422	393	389	377	373	396	386	359	338	337	386
QUINN RANCH	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
ROSEDALE RANCH	.....	.....	6	87	79	59	55	110	128	101	118	154	75
SAN BENITO COUNTY	6	.....	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	1
SHAFTER	6	4*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SHEEP SPRINGS	451	494	485	682	676	622	686	718	734	522	570	578	602
RACE TRACK	25	52	40	113	426	516	706	928	1,070	961	984	1,012	572
TEJON RANCH—Total	304	303	403	481	474	449	455	480	489	472	423	461	433
Metzenbaum	48	68	133	226	217	184	189	213	235	251	188	198	180
Reserve-Grapevine	.....	.....	.....	.....	.....	.....	30	41	43	26	9	36	15
Others	256	235	270	255	257	265	236	226	211	195	226	227	238
TERRA BELLA	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
UNION AVENUE	65	74	64	57	51	186	218	207	97	49	130	161	113
SAN JOAQUIN VALLEY TOTAL	441,602	447,371	449,758	458,737	474,348	478,555	474,915	456,877	413,261	394,772	400,048	400,263	440,857

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This valve is constructed of forged alloy steel, heat treated throughout to withstand great wear. The INSERT is made of a special rubber formula and designed to form a perfect seal with the seat. NOTE: The design of the seat will afford greater wear due to a greater pounding area.

This valve is your assurance of longer continuous service with less shut-down time and lower maintenance costs.

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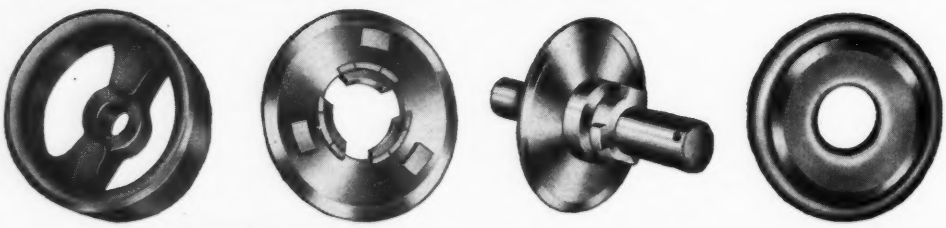

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GENERAL OFFICES KANSAS CITY

FIELD & POOL PRODUCTION
CALIFORNIA — 1945
DAILY AVERAGE

COASTAL	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	Year Average
SANTA BARBARA DISTRICT	7,940	8,158	8,539	8,492	8,563	8,528	8,665	8,657	8,317	6,247	7,423	9,095	8,220
CAPITAN	2,200	2,318	2,567	2,474	2,395	2,376	2,482	2,641	2,303	57	1,144	3,201	2,172
Vaqueros	2,098	1,966	2,261	2,177	2,083	2,060	2,012	1,935	1,717	3	460	1,387	1,679
Sespe	102	236	100	115	109	120	105	100	93	.....	41	101	101
Coldwater	.....	.....	.....	.....	.....	.....	.....	261	52	.....	60	158	45
Covarrubias	.....	116	206	182	203	196	365	345	441	54	583	1,456	347
ELWOOD	5,670	5,753	5,911	5,940	6,085	6,034	6,087	5,907	5,914	6,082	6,176	5,903	5,956
Vaqueros	5,571	5,644	5,795	5,824	5,978	5,942	5,996	5,856	5,840	6,032	6,097	5,855	5,870
Sespe	99	109	116	116	107	92	91	51	74	50	79	48	86
SANTA BARBARA—Vaqueros	68	86	61	78	83	118	96	109	100	108	103	90	92
SUMMERLAND—All Pools	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SANTA MARIA DISTRICT	54,639	54,639	54,240	55,899	57,909	58,995	57,909	57,043	56,157	50,706	51,408	51,066	55,048
BRADLEY CANYON	85	68	82	60	132	87	73	39	31	.....	.....	.....	57
Sisquoc	17	11	19	.....	78	43	23	3	.....	.....	.....	.....	38
Miocene	68	57	63	60	54	44	50	36	31	.....	.....	.....	19
CASMALIA—All Pools	546	514	78	70	389	633	540	576	615	337	39	37	364
CAT CANYON	7,787	7,768	7,734	7,758	8,270	8,535	8,711	8,606	8,579	7,513	8,016	8,107	8,117
East	734	876	706	693	793	931	1,021	964	889	693	818	740	821
West	1,376	1,362	1,420	1,570	1,285	1,298	1,386	1,398	1,415	1,141	1,319	1,413	1,365
Las Flores	5,677	5,530	5,608	5,495	6,192	6,306	6,304	6,244	6,275	5,679	5,879	5,954	5,931
GATO RIDGE—Tognazzini	4,684	4,357	4,131	4,422	4,758	4,807	4,757	4,497	4,298	4,129	4,020	4,059	4,411
LOMPOC—All Pools	1,789	1,566	1,637	1,598	1,521	1,588	1,508	1,567	1,449	1,254	1,344	1,300	1,510
ORCUTT—All Pools	3,845	3,849	3,871	3,803	3,781	3,668	3,768	3,681	3,537	3,064	3,437	3,467	3,646
SANTA MARIA VALLEY	35,887	36,517	36,568	38,008	38,853	39,457	38,324	37,813	37,420	34,178	34,315	33,853	36,762
TINAQUAIC	16	.....	48	.....	.....	.....	.....	.....	.....	.....	.....	.....	5
ZACA CREEK	.....	.....	61	180	205	220	228	264	228	231	237	243	176
VENTURA DISTRICT	59,111	58,913	61,115	62,563	64,141	60,872	63,420	64,026	57,665	55,128	58,892	58,507	60,379
PADRE CANYON—All Pools	1,969	1,855	1,790	2,035	2,003	2,115	2,150	2,110	2,161	2,277	2,395	2,537	2,118
RINCON	4,704	4,540	4,461	4,737	4,910	4,651	4,142	4,480	4,521	4,446	4,860	4,873	4,610
Hobson-Tomson-Miley	4,594	4,332	4,348	4,630	4,793	4,542	4,040	4,374	4,408	4,339	4,748	4,762	4,500
Deep	110	108	113	107	117	109	102	106	113	107	112	111	110
SAN MIGUELITO	5,759	5,431	5,799	5,923	5,379	5,338	5,172	5,185	5,029	4,659	4,596	4,770	5,252
Grubb One	4,735	4,427	4,663	4,773	4,037	4,165	3,983	4,033	4,021	3,529	3,496	3,393	4,102
Grubb Two	1,024	1,004	1,136	1,150	1,342	1,173	1,189	1,152	1,008	1,130	1,100	1,377	1,150
VENTURA AVENUE	46,666	47,080	49,065	49,858	51,843	48,768	51,950	52,247	45,954	43,744	47,038	46,324	48,394
Shallow	22,191	22,790	23,301	23,654	24,850	23,494	24,528	24,805	19,757	18,066	18,308	18,054	21,984
A-3, B-3	2,173	2,079	1,844	2,056	2,061	1,932	1,934	2,052	1,479	1,362	1,220	1,225	1,784
B-1, 2	102	79	61	110	115	156	198	223	220	178	158	167	146
B-4, B-5	1,681	2,265	2,364	2,406	3,035	2,957	3,168	2,916	1,391	969	971	1,083	2,101
C-1, 2 West	457	515	475	457	714	723	606	855	94	.....	.....	24	410
C-3 West	3,106	3,347	2,993	3,093	3,213	3,085	2,897	2,960	1,662	1,191	1,173	1,179	2,487
C-6 West	354	275	289	295	294	274	331	292	33	30	32	.....	208
"C" Block	14,318	14,230	15,275	15,237	15,418	14,367	15,394	15,507	14,898	14,336	14,754	14,376	14,848
Deep	24,475	24,290	25,764	26,204	26,993	25,274	27,422	27,442	26,197	25,678	28,730	28,270	26,410
D-3	1,167	1,057	1,242	1,168	1,340	1,406	1,573	1,786	1,682	1,545	1,616	1,588	1,433
D-4	214	209	226	168	180	101	158	140	128	127	118	107	156
D-5 West	5,627	5,359	4,982	4,890	5,120	5,031	5,600	5,467	5,467	4,802	5,281	5,036	5,221
D-5, 6 East	8,626	8,505	8,945	8,773	9,443	8,909	8,984	8,814	8,684	8,272	8,616	7,849	8,703
D-6 West	3,111	3,197	2,964	3,315	3,515	3,355	3,337	3,257	3,230	2,549	2,719	2,464	3,083
D-7	5,730	5,963	7,405	7,890	7,395	6,472	7,770	7,978	7,006	8,383	10,380	11,226	7,814
VENTURA-OJAI													
TIPTOP-FRESNO CANYON	13	7	.....	10	6	.....	6	4	.....	2	3	3	5
SANTA PAULA-NEWHALL DISTRICT	17,718	18,431	19,210	19,200	20,314	20,394	21,116	21,486	21,363	20,618	21,288	21,216	20,206
FILLMORE	2,353	2,427	2,444	2,431	2,465	2,399	2,316	2,237	2,258	2,205	2,168	2,219	2,326
BARDSDALE	322	401	476	452	493	459	472	397	412	398	469	524	440
Elkins Area	14	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Other Areas	308	400	476	452	493	459	472	397	412	398	469	524	439
SESPE CANYON	168	165	166	162	150	163	172	173	162	161	142	142	160

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COASTAL—Continued	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	Year Average
SHIELLS CANYON	1,848	1,845	1,788	1,803	1,808	1,763	1,658	1,652	1,671	1,631	1,543	1,540	1,712
TOPA-TOPA	15	16	14	14	14	14	14	15	13	15	14	13	14
NEWHALL	10,835	11,607	12,427	12,697	13,269	13,295	14,031	14,532	14,070	13,152	13,867	13,957	13,154
DEL VALLE	4,483	4,799	4,932	4,881	5,118	5,290	5,684	6,126	6,224	5,061	5,777	5,712	5,343
East	1,555	1,706	1,787	1,631	1,682	1,556	1,619	2,068	2,109	1,457	1,659	1,708	1,711
DL4-DL5	8	178	225	137	91	63	36	35	18	2	4	9	66
Sherman	708	700	705	641	721	710	704	629	656	643	668	614	675
Del Valle	531	536	546	560	559	520	614	1,162	1,205	634	712	790	698
Bering	308	292	311	293	311	263	265	242	230	178	275	295	272
West	2,928	3,093	3,145	3,250	3,436	3,734	4,065	4,058	4,115	3,604	4,118	4,004	3,632
Sterry	56	56	54	49	51	45	48	45	44	39	42	40	48
Sepulveda	306	307	277	301	295	278	281	306	296	376	448	454	327
Vasquez-Videgain	2,566	2,730	2,814	2,900	3,090	3,185	3,312	3,327	3,331	2,619	2,739	2,793	2,951
Vasquez-Videgain 13	.....	.....	.....	.....	.....	226	424	380	444	570	889	717	306
ELSMERE CANYON	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
HALSEY CANYON	24	13	13	11	27*	.....	.....	.....	.....	4	16	17	6
NEWHALL	54	86	91	79	63	58	76	29	42	75	56	59	64
NEWHALL-POTRERO—Total	4,477	4,633	5,423	5,758	5,785	5,443	5,628	5,751	5,331	5,571	5,716	5,812	5,449
6th	.....	.....	67	448	523	328	5,176	5,312	4,974	5,207	5,293	5,328	5,123
Others	4,477	4,633	5,356	5,310	5,262	5,115	452	439	357	364	423	484	326
OAK CANYON	1,787	2,073	1,965	1,869	2,102	2,271	2,415	2,258	1,893	1,898	1,802	1,883	2,018
Maxwell Weaver	213	328	314	294	285	272	259	246	153	158	160	160	236
Wickham	40	45	41	40	24	31	27	26	30	43	19	31	33
Gilmour	617	800	699	651	832	1,010	1,077	962	717	715	619	729	786
Lechler	917	900	911	884	945	939	977	932	892	895	927	886	917
Loel	.....	.....	.....	.....	16	19	75	92	101	87	77	77	46
PICO CANYON	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
RAMONA	.....	.....	.....	96	219	227	222	363	576	523	493	466	267
WILEY-TOWSLEY CANYON	10	3	3	3	9	6	6	6	4	20	7	8	7
PIRU	1,113	1,109	1,040	1,164	1,140	1,140	1,085	1,103	1,090	1,028	1,026	965	1,083
HOLSER CANYON	26	16	13	13	22	19	16	17	26	.....	.....	13	15
HOPPER CANYON	82	105	83	147	129	159	119	145	156	137	144	118	127
MODELO	3	2	1	2	3	2	3	4	1	1	2	2	2
TAPO-EUREKA	6	6	4	3	4	2	3	3	2	1	4	2	3
TEMESCAL	853	841	817	863	836	814	798	783	767	746	730	693	795
TORREY CANYON	143	139	122	136	146	144	146	151	138	143	146	137	141
SANTA PAULA	1,860	1,934	1,959	2,046	2,172	2,214	2,359	2,438	2,596	2,874	3,059	3,092	2,386
EX-MISSION	32	34	30	23	25	29	35	21	31	33	33	29	30
SISAR-SILVERTHREAD	115	146	108	138	125	133	125	109	122	114	133	128	124
SOUTH MOUNTAIN	1,698	1,726	1,789	1,848	2,004	2,032	2,173	2,286	2,411	2,703	2,868	2,910	2,207
SULPHUR MOUNTAIN	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
TIMBER CANYON	15	14	23	17	18	20	26	22	32	24	25	25	22
WEST MOUNTAIN	.....	14	9	20	.....	.....	.....	.....	.....	.....	.....	.....	3
SIMI-CONEJO-OXNARD	1,557	1,354	1,340	862	1,268	1,346	1,325	1,175	1,349	1,359	1,168	983	1,257
CONEJO	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
OXNARD	1,485	1,271	1,261	795	1,189	1,277	1,268	1,094	1,271	1,280	1,088	905	1,182
SIMI	72	83	79	67	79	69	57	81	78	79	80	78	75
OTHER COASTAL COUNTIES	103	91	90	73	90	97	89	89	73	91	86	74	87
SAN LUIS OBISPO	83	71	69	53	70	72	63	67	58	70	64	55	67
EDNA	35	35	34	35	34	33	34	32	33	33	32	31	34
HUASNA	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
PISMO	48	36	35	18	36	39	29	35	25	37	32	24	33
Martin	29	20	21	11	24	21	19	25	15	23	21	15	20
East Elberta	19	16	14	7	12	18	10	10	10	14	11	9	13
SAN MATEO—HALF MOON BAY	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SANTA CLARA	20	20	21	20	20	25	26	22	15	21	22	19	20
LOS GATOS	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SARGENT	16	20	21	20	20	25	26	22	15	21	22	19	20
COASTAL TOTAL	139,511	140,232	143,194	146,227	151,017	148,886	151,190	151,301	143,575	132,790	139,097	139,958	143,940

FIELD & POOL PRODUCTION
CALIFORNIA — 1945

SARGENT	16	20	21	20	20	25	26	22	15	21	22	19	20
COASTAL TOTAL	139,511	140,232	143,194	146,227	151,017	148,886	151,199	151,301	143,575	132,790	139,097	139,958	143,940

FIELD & POOL PRODUCTION
CALIFORNIA — 1945
DAILY AVERAGE

LOS ANGELES BASIN	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	Year Average
ALAMITOS HEIGHTS—All Pools—Total	661	733	932	976	971	913	1,015	1,083	1,023	936	598	617	873
Bryant	.....	47	290	346	338	292	363	430	356	325	.....	.....	234
Others	661	686	642	630	633	621	652	653	667	611	598	617	639
ALISO CANYON	3,482	3,341	3,118	3,047	3,420	3,136	3,011	3,184	3,291	2,919	2,942	3,015	3,158
Eocene	.....	31	31	20	19	14	12	10	10	10	7	8	14
Porter	1,504	1,285	1,232	1,331	1,299	1,298	1,328	1,291	1,326	1,154	1,164	1,168	1,282
Sesnon	1,926	1,990	1,816	1,646	2,061	1,787	1,644	1,865	1,941	1,738	1,755	1,826	1,832
Sesnon (Faulted)	52	35	39	50	41	37	27	18	14	17	16	13	30
BREA-OLINDA DISTRICT	11,767	11,803	11,819	11,832	11,748	11,714	11,647	11,705	11,271	10,776	10,694	10,661	11,451
BREA	4,785	5,279	5,259	5,196	5,180	5,246	5,297	5,285	4,801	4,637	4,590	4,728	5,022
OLINDA	4,314	3,962	4,048	4,118	4,109	4,084	4,057	4,083	4,152	3,850	3,888	3,864	4,045
TONNER	2,668	2,562	2,512	2,518	2,459	2,384	2,293	2,337	2,318	2,289	2,216	2,069	2,384
COYOTE EAST	5,169	5,180	5,172	5,120	5,007	5,005	5,006	4,971	5,001	4,859	4,845	4,863	5,015
Graham-Loftus-Haulde	2,384	2,443	2,377	2,330	2,282	2,403	2,362	2,264	2,295	2,184	2,188	2,294	2,316
Mathis	1,412	1,409	1,409	1,455	1,407	1,262	1,312	1,400	1,399	1,409	1,374	1,339	1,382
Stern	1,373	1,328	1,386	1,335	1,318	1,340	1,332	1,307	1,307	1,266	1,283	1,230	1,317
COYOTE WEST	12,585	12,318	12,474	13,144	14,013	14,489	15,041	15,561	15,755	15,686	16,055	15,650	14,410
Murphy	4,347	4,130	4,415	4,875	4,892	5,077	5,174	5,150	3,837	3,733	3,898	3,700	4,438
Ninety-nine	2,796	2,902	2,803	2,787	2,789	2,931	3,059	3,566	5,038	5,202	5,165	4,950	3,669
Ninety-nine Lower	600	604	599	608	996	1,051	1,184	1,314	1,557	1,631	1,795	1,578	1,130
Emery	4,806	4,647	4,621	4,835	5,297	5,390	5,587	5,493	5,285	5,081	5,157	5,383	5,135
East	2,675	2,520	2,569	2,718	3,169	3,295	3,465	3,350	3,140	2,951	3,033	3,264	3,016
West	2,131	2,127	2,052	2,117	2,128	2,095	2,122	2,143	2,145	2,130	2,124	2,119	2,119
McNally	36	35	36	39	39	40	37	38	38	39	40	39	38
DOMINGUEZ	19,513	19,614	19,153	19,201	18,837	18,693	18,771	18,590	18,445	15,870	17,479	17,225	18,440
Pliocene	14,540	14,841	14,412	14,471	14,106	13,892	14,283	14,179	13,997	12,028	12,960	12,790	13,868
5th West Block	819	1,046	933	1,186	897	849	875	1,050	1,305	936	977	978	986
Others	13,721	13,795	13,479	13,285	13,209	13,043	13,408	13,129	12,692	11,092	11,983	11,812	12,882
Miocene	4,973	4,773	4,741	4,730	4,731	4,801	4,488	4,411	4,448	3,842	4,519	4,435	4,572
7th Central Block	644	642	657	657	630	652	602	604	608	450	630	579	613
8th Central Block	1,120	1,103	1,081	1,044	1,050	1,044	987	947	977	855	965	974	1,011
South Central Block	794	746	775	783	863	882	775	750	746	733	776	738	780
South-West Block	116	114	129	126	121	123	114	114	111	97	98	99	114
West Block	1,961	1,835	1,820	1,835	1,827	1,838	1,744	1,761	1,803	1,495	1,819	1,834	1,797
West Town Lot Block	338	333	279	285	240	262	266	235	203	212	231	211	257
EL SEGUNDO	811	834	795	834	833	765	763	818	807	725	747	699	785
West Area	33	38	37	33	36	33	34	34	32	30	35	34	34
Others	778	796	758	801	797	732	729	784	775	695	712	665	751
HUNTINGTON BEACH NEW	31,225	32,060	33,518	34,803	35,215	33,876	33,690	32,562	32,016	31,426	31,342	31,192	32,747
On-Shore	4,057	4,238	4,292	4,283	4,249	4,068	4,031	4,084	4,111	4,164	4,048	3,923	4,128
Tar Zone	551	535	598	604	545	504	467	507	482	469	457	459	515
Main Area	2,291	2,312	2,410	2,428	2,406	2,282	2,221	2,167	2,370	2,421	2,348	2,368	2,335
A-37 Area	1,215	1,391	1,284	1,251	1,298	1,282	1,262	1,273	1,130	1,152	1,113	1,010	1,221
A-66 Area	.....	.....	.....	.....	.....	.....	81	137	129	122	130	86	57
Off-Shore	27,168	27,822	29,226	30,520	30,966	29,808	29,659	28,478	27,905	27,262	27,294	27,269	28,619
Main	16,984	16,918	17,426	18,169	17,720	17,326	17,505	17,675	17,827	17,949	17,959	18,033	17,628
Jones	10,184	10,904	11,800	12,351	13,246	12,482	12,154	10,803	10,078	9,313	9,335	9,236	10,991
HUNTINGTON BEACH OLD	15,998	15,794	15,863	15,907	16,075	15,459	14,748	15,056	15,627	14,450	15,035	15,183	15,429
Bolsa Area	6,995	6,770	6,658	6,897	7,122	6,636	6,450	6,667	7,479	6,444	6,615	6,829	6,795
Tar Bolsa	799	775	810	804	820	596	503	533	493	494	484	474	631
Ashton	6,196	5,995	5,848	6,093	6,302	6,040	5,947	6,134	6,986	5,950	6,131	6,355	6,164
Upper	3,617	3,453	3,371	3,436	3,815	3,609	3,475	3,532	4,132	3,142	3,223	3,513	3,526
Lower	2,579	2,542	2,477	2,657	2,487	2,431	2,472	2,602	2,854	2,808	2,908	2,842	2,638
Other Areas	9,003	9,024	9,205	9,010	8,953	8,823	8,298	8,389	8,148	8,006	8,420	8,354	8,634
Tar Bolsa	1,373	1,371	1,361	1,306	1,251	1,279	1,157	1,235	1,222	1,133	1,237	1,140	1,254
Ashton	7,630	7,653	7,844	7,704	7,702	7,544	7,141	7,154	6,926	6,873	7,183	7,214	7,380
INGLEWOOD	16,259	16,358	16,217	15,815	15,824	15,662	15,491	15,051	15,140	14,762	14,245	14,036	15,399
Vickers-Machado	8,263	8,443	8,700	8,307	8,309	8,253	8,193	7,848	8,011	7,848	7,516	7,833	8,126
Rindge	3,205	3,170	2,799	3,036	3,128	2,976	2,991	2,912	2,998	2,766	2,738	2,686	2,949
Rubel	3,309	3,318	3,339	3,134	3,065	3,076	3,038	3,030	2,896	2,888	2,807	2,409	3,024

What do you want MOST in a Casing Joint?

A This pin taper guides the two-step thread into mating position, and provides firm inside seal, with no gap to invite corrosion or cause drag in flowing fluid. Hydril Joints are even diameter inside, and hydraulically smooth.

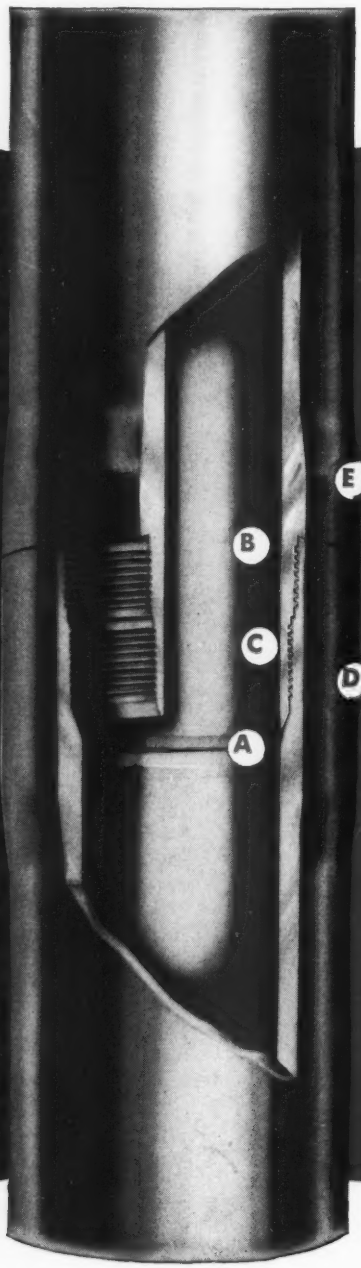
B This shoulder produces a leak-proof seal against external pressure, and, because of its bevel, prevents the box from belling. Hydril Joints cannot be over-tonged.

C This two-step square thread is practically self-stabbing and self-aligning, cannot be cross-threaded, galled or pulled apart, gives greater metal-to-metal support, and provides full strength in tension for all the metal in the joint.

D Because the upset is slight, and is machined to exact dimensions, Hydril Joints are much smaller in outside diameter than threaded and coupled casing, allowing the use of larger casing in a hole of given size.

E The gradual taper of this streamlined upset tends to pack back the formation. Even with an unstable hole wall, Hydril Casing can be run at maximum speed without danger of knocking down the formation.

Write for Complete Engineering Data



FLUID-TIGHT SEAL?

HIGH JOINT STRENGTH?

SPEED and EASE in HANDLING?

HYDRIL CASING JOINTS

Give you all of these and more!

Five minutes consideration of the important features of HYDRIL Casing Joints will prove to you that they provide high joint efficiency, a seal which is proof against pressures both internal and external, and that they are easy to make-up and run . . . one spin of the rope seats the joint . . . one jerk of the tongs seals it. From 1000 to 1800 feet of range 3 Hydril "EU" casing can be run in an hour.

HYDRIL

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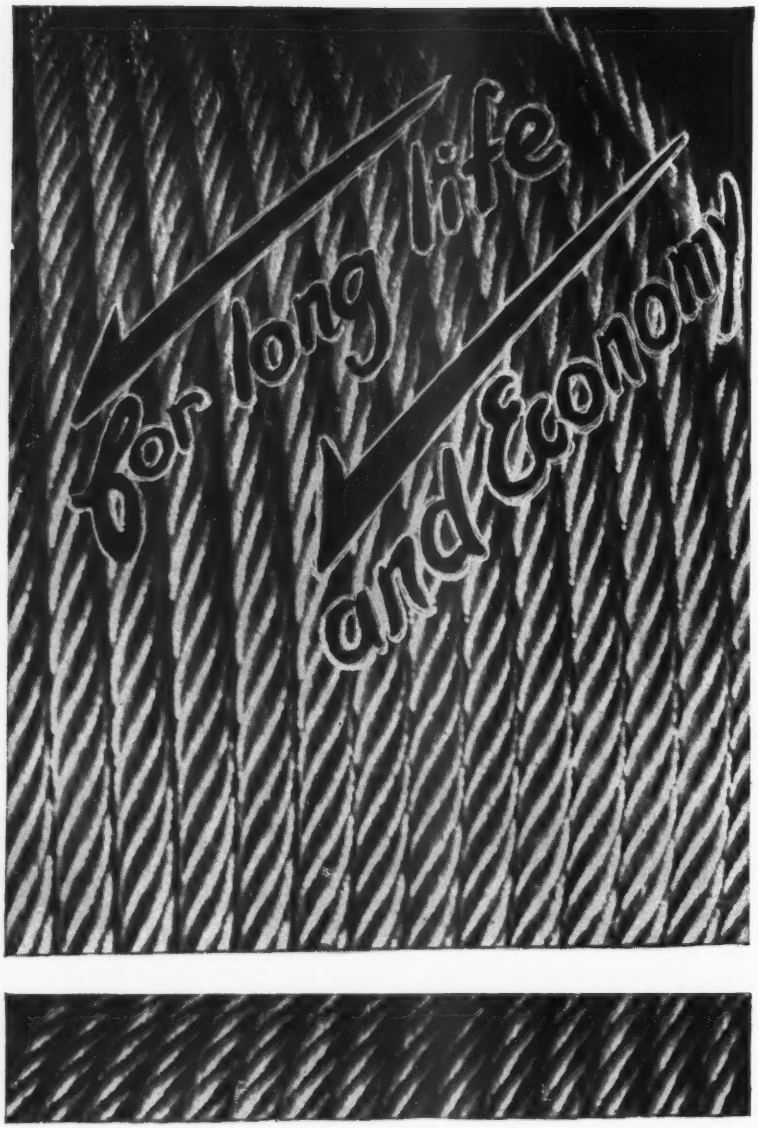
HYDRIL MADE *Means* TOP GRADE

FIELD & POOL PRODUCTION
CALIFORNIA — 1945
DAILY AVERAGE

LOS ANGELES BASIN—Continued	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	Year Average
Moynier	4	5	4	5	75	81	87	114	107	99	119	106	67
Sentous	1,478	1,422	1,375	1,333	1,247	1,276	1,182	1,147	1,128	1,161	1,065	1,002	1,233
LONG BEACH	27,754	27,863	27,550	27,238	26,987	27,255	27,138	26,374	26,437	24,839	26,083	26,093	26,792
Old Area	27,274	27,382	26,998	26,679	26,391	26,593	26,497	25,783	25,866	24,370	25,500	25,571	26,233
Upper	26,985	27,140	26,756	26,426	26,129	26,334	26,228	25,522	25,644	24,118	25,285	25,325	25,982
De Soto	289	242	242	253	262	259	269	261	222	252	215	246	251
Northwest Extension Area	480	481	552	559	596	662	641	591	571	469	583	522	559
MONTEBELLO	10,822	10,389	10,414	10,573	10,277	9,822	9,755	9,716	9,757	9,717	9,662	9,028	9,992
Main Area—Baldwin One-Two-Three	7,890	7,643	7,562	7,682	7,525	7,230	7,221	7,081	7,137	6,976	7,101	6,509	7,294
East Area	237	229	235	222	215	179	191	212	211	164	189	162	204
Cruz	7	12	2	.....	7	3	3	4	3	5	5	4	5
Nutt	230	217	233	222	208	176	188	208	208	159	184	158	199
West Area	2,695	2,517	2,617	2,669	2,537	2,413	2,343	2,423	2,409	2,577	2,372	2,357	2,494
Fifth Zone	203	223	251	222	210	187	189	180	161	141	182	200	196
Sixth Zone	172	136	123	174	127	102	84	105	124	141	129	120	128
Masser Zone	757	676	688	655	559	462	545	536	584	532	610	582	598
Seventh Zone	285	236	256	306	285	280	244	253	244	240	231	288	263
Eighth Zone	1,099	1,055	1,109	1,124	1,158	1,197	1,086	956	904	905	851	871	1,031
Ninth Zone	179	191	190	188	198	185	195	393	392	558	369	296	278
PLAYA DEL REY	2,635	2,529	2,462	2,532	2,560	2,526	2,421	2,542	2,401	2,293	2,370	2,274	2,462
Del Rey Hills Area	703	669	635	635	648	600	692	698	667	514	563	523	629
Venice Area	1,932	1,860	1,827	1,897	1,912	1,926	1,729	1,844	1,734	1,779	1,807	1,751	1,833
POTRERO	891	833	818	857	1,098	1,319	1,176	1,055	1,085	1,085	1,163	1,140	1,044
Central Area	607	545	545	592	801	1,025	893	755	733	616	717	704	711
East Area	230	244	226	228	248	247	237	251	317	423	407	391	288
Potrero No. 2	113	110	106	110	104	107	106	106	100	99	97	91	104
Others	117	134	120	118	144	140	131	145	217	324	310	300	184
West Area	54	44	47	37	49	47	46	49	35	46	39	45	45
RICHFIELD	6,833	7,070	6,870	7,252	7,246	7,341	7,284	7,186	7,087	6,703	7,299	7,209	7,114
East Area	3,387	3,632	3,646	3,937	3,800	3,824	3,799	3,775	3,718	3,389	3,635	3,562	3,675
West Area	3,446	3,438	3,224	3,315	3,446	3,517	3,485	3,411	3,369	3,314	3,664	3,647	3,439
ROSECRANS-ATHENS	5,932	5,827	5,695	6,135	6,077	5,932	5,874	5,710	5,525	5,114	5,400	5,246	5,704
Rosecrans Area	4,687	4,572	4,463	4,783	4,786	4,650	4,531	4,381	4,196	3,979	4,248	4,055	4,443
Maxwell-Hoge	584	541	531	616	862	749	665	652	601	625	607	557	634
Zinns	577	554	550	529	526	531	527	494	478	456	571	550	528
Miocene	3,526	3,477	3,382	3,638	3,398	3,370	3,339	3,235	3,117	2,898	3,070	2,948	3,281
Banks Block	458	442	486	711	572	539	553	506	393	302	303	304	464
Seventh	2,263	2,236	2,128	2,149	2,067	2,049	2,045	2,009	2,006	1,930	2,082	1,956	2,075
Eighth	805	799	768	778	759	782	741	720	718	666	685	688	742
Athens Area	1,245	1,255	1,232	1,352	1,291	1,282	1,343	1,329	1,329	1,135	1,152	1,191	1,261
Upper	293	272	308	324	265	291	313	289	232	151	211	243	266
Lower	670	707	643	705	672	632	726	739	781	690	684	723	698
Miocene	282	276	281	323	354	359	304	301	316	294	257	225	297
SANTA FE SPRINGS	18,078	17,864	17,690	17,632	17,475	17,595	17,512	17,086	16,975	15,218	16,566	16,750	17,198
SEAL BEACH	7,816	7,933	7,629	7,713	8,896	8,926	9,294	9,036	8,580	8,674	8,553	8,723	8,486
Bixby Selover—South Block	1,668	1,581	1,404	1,598	1,509	1,498	1,621	1,496	1,419	1,517	1,519	1,409	1,520
North Block—Selover	78	114	139	137	109	128	126	119	114	106	103	104	115
South Block	3,611	3,497	3,512	3,354	3,475	3,379	3,318	3,247	3,145	3,243	3,080	2,920	3,314
Wasem	2,659	2,582	2,653	2,535	2,640	2,485	2,479	2,336	2,291	2,352	2,268	2,131	2,450
McGrath	952	915	859	819	835	894	839	911	854	891	812	789	864
North Block	2,459	2,741	2,574	2,624	3,803	3,921	4,229	4,174	3,902	3,808	3,851	4,290	3,537
Wasem—East	779	761	711	658	605	742	748	707	692	560	542	498	666
McGrath—East	1,588	1,889	1,761	1,849	2,885	2,866	3,031	3,073	2,735	2,836	3,093	3,568	2,603
Selover—West	92	91	102	92	49	83	89	76	76	72	68	61	79
McGrath-West	.....	.....	.....	.....	.....	.....	117	115	180	168	.....	.....	49
San Gabriel—West	.....	.....	.....	25	264	230	244	203	219	172	148	163	140
TORRANCE-HERMOSA	8,582	8,835	8,672	8,854	8,964	8,967	8,972	8,988	9,021	9,041	8,773	8,582	8,854
Hermosa Area	63	58	62	64	57	69	92	73	81	68	76	82	70
Torrance Area	7,656	7,931	7,809	7,970	8,089	8,087	8,082	8,113	8,146	8,189	7,881	7,701	7,970
Main	4,488	4,579	4,675	4,929	5,073	5,156	5,117	5,177	5,211	5,384	5,172	4,993	4,998



"The Double Blue Line"

A Pacific Coast Product

Medearis Oilwell Supply Co., South Gate, Calif.—Oil Tool Corp., Long Beach, Calif.
J. A. HERRON, SPECIAL REPRESENTATIVE SOUTHERN CALIFORNIA, 739 East 60th St., Los Angeles

WIRE ROPE MFG. & EQUIPMENT CO.

322 First Avenue South, Seattle 14, Wash.

Offices and Warehouses: Los Angeles — San Francisco — Portland

FIELD & POOL PRODUCTION
CALIFORNIA — 1945
DAILY AVERAGE

LOS ANGELES BASIN—Continued	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	Year Average
Thirty-four	1,211	1,328	1,200	1,198	1,124	1,193	1,208	1,235	1,169	1,116	1,105	1,126	1,183
D. & D.	499	487	479	460	520	482	512	483	506	446	465	408	479
Vesta	1,458	1,537	1,455	1,383	1,372	1,256	1,245	1,218	1,260	1,243	1,139	1,174	1,310
Torrance Extension Area	863	846	801	820	818	811	798	802	794	784	816	799	814
WHITTIER	1,018	1,011	1,005	1,031	1,025	1,003	1,038	982	997	984	968	994	1,004
Central Area	894	880	904	896	906	882	914	869	892	870	862	869	886
La Habra Area	42	41	42	42	40	37	44	46	38	40	40	37	41
Rideout-Heights Area	82	90	59	93	79	84	80	67	67	74	66	88	77
WILMINGTON	98,480	99,522	98,688	99,104	101,437	100,711	100,031	99,872	100,103	98,876	95,484	96,227	99,043
Fault Block I (Terminal Area)	9,014	9,122	9,257	9,362	9,481	9,465	9,593	10,173	10,542	10,331	10,248	10,336	9,747
Ranger-Terminal	6,467	6,509	6,616	6,828	6,969	7,029	7,089	7,190	7,373	7,282	7,141	7,266	6,983
Ford	2,547	2,613	2,641	2,534	2,512	2,436	2,504	2,983	3,169	3,049	3,107	3,070	2,764
Fault Block II (Terminal Area)	18,489	18,913	18,581	18,520	20,411	19,981	20,358	19,901	19,609	19,381	17,124	18,449	19,149
Tar-Ranger	4,410	4,654	4,499	4,495	4,638	4,587	4,641	4,967	4,928	4,688	4,767	4,983	4,688
Terminal	11,922	12,045	11,983	11,907	13,039	12,654	12,510	12,181	11,967	11,626	9,535	10,228	11,802
Ford	1,504	1,540	1,596	1,626	2,115	2,194	2,624	2,206	2,221	2,571	2,419	2,841	2,126
U. P.	653	674	503	492	619	546	583	547	493	496	403	397	533
Fault Block III (Terminal Area)	14,338	14,241	13,920	13,556	13,688	12,996	12,694	12,139	11,545	11,536	11,460	11,406	12,786
Tar-Ranger	7,452	7,152	7,072	6,818	6,287	6,005	5,875	5,504	5,324	5,045	5,129	5,050	6,053
Terminal	6,752	6,943	6,680	6,591	7,246	6,835	6,672	6,486	6,075	6,345	6,199	6,233	6,587
Upper	5,119	5,435	5,169	4,991	5,359	5,202	4,964	4,757	4,495	4,790	4,674	4,700	4,969
Lower	1,633	1,508	1,511	1,600	1,887	1,633	1,708	1,729	1,580	1,555	1,525	1,533	1,618
U. P.	134	146	168	147	155	156	147	149	146	146	132	123	146
Fault Block IV (Harbor Area)	25,806	25,614	25,390	25,371	25,258	25,438	24,884	25,327	25,526	25,587	24,765	24,560	25,291
Ford	.....	.....	110	349	246	240	240	413	567	555	659	639	336
Tar	180	197	218	236	235	249	190	194	266	377	328	321	249
Terminal	25,626	25,417	25,062	24,786	24,777	24,949	24,454	24,720	24,693	24,655	23,778	23,600	24,706
Fault Block V (Harbor Area)—Terminal	2,106	2,723	2,686	2,829	2,657	2,659	2,496	2,667	2,912	2,729	2,733	2,530	2,642
Fault Block IV & V (Harbor Area)—Ranger	13,718	13,566	14,283	14,680	15,021	15,153	15,220	15,131	15,106	14,894	14,531	14,351	14,644
Town Lot Area	15,009	15,343	14,571	14,786	14,921	15,019	14,786	14,534	14,863	14,418	14,623	14,595	14,784
Tar, Ranger & Terminal	14,228	14,584	13,817	14,131	14,136	14,201	13,951	13,707	14,066	13,613	13,790	13,794	13,998
Ford	781	759	754	655	785	818	835	827	797	803	833	801	786
OTHER FIELDS	1,902	1,932	1,933	1,882	2,053	2,270	2,679	3,215	3,337	3,396	3,935	3,623	2,684
BUENA PARK	123	113	116	116	114	109	102	99	91	84	83	108	105
CHINO	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KRAEMER	90	90	91	89	92	92	91	93	79	92	91	86	90
LAWNDALE	26	8	6	36	32	42	33	16	18	18	17	20	23
LOS ANGELES DISTRICT	493	490	478	506	528	502	483	496	502	511	506	489	499
BEVERLY HILLS	105	92	102	119	143	129	97	115	116	138	111	107	115
LOS ANGELES	160	160	160	160	160	160	160	160	160	160	160	160	160
SALT LAKE	228	238	216	227	225	213	226	221	226	213	235	222	224
NEWPORT BEACH	77	48	62	60	53	288	787	1,279	2,024	2,131	2,677	2,334	989
PUENTE HILLS	46	39	34	34	49	43	36	38	.....	.....	.....	.....	27
SANSINENA	.....	.....	.....	.....	27	102	58	44	116	122	135	102	59
TURNBULL	197	192	195	190	195	170	176	176	167	167	168	161	179
WESTERN AVENUE	28	32	28	25	21	23	25	30	17	26	26	12	24
YORBA LINDA	822	920	923	826	942	899	888	944	323	245	232	311	689
Shell	644	607	686	662	658	585	592	551	9*	.....	.....	99	423
Smith	178	313	237	164	284	314	296	393	332	245	232	212	266
LOS ANGELES BASIN TOTAL	308,213	309,643	308,487	311,482	316,038	313,379	312,357	310,343	309,681	298,349	300,238	299,030	308,084
STATE TOTAL	889,326	897,246	901,439	916,446	941,403	940,820	938,471	918,521	866,517	825,911	839,383	839,251	892,881
CONDENSATE (RAW & DEBUTANIZED)													
COLES LEVEE—SOUTH	120	8	.....	.....	.....	.....	.....	11	77	341	517	2,892	3,947
PALOMA (Paloma Pool)	5,707	5,222	4,670	5,238	5,233	4,917	4,857	4,601	3,817	3,746	3,940	4,236	55,100
(Symons Pool)	83	150	152	98	67	49	52	131	87	74	35	36	992
PALOMA FIELD TOTAL	5,790	5,372	4,822	5,336	5,300	4,966	4,909	4,732	3,904	3,820	3,975	4,272	56,092
TOTAL CONDENSATE	5,910	5,380	4,822	5,336	5,330	4,966	4,909	4,743	3,981	4,161	4,492	7,164	60,039

NUMBER OF PRODUCING WELLS
CALIFORNIA — 1945

Prepared by the Conservation Committee of California Oil Operators

	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
SAN JOAQUIN VALLEY												
BELRIDGE NORTH	61	59	67	66	62	68	70	66	61	64	62	65
Shallow	9	10	11	11	11	11	11	11	13	12	10	10
Temblor	6	6	6	5	5	5	4	3	3	3	3	3
"R" Sand	1						1			1		1
Wagon Wheel	41	39	43	43	38	44	46	44	37	40	41	43
"Y" Sand	4	4	7	7	8	8	8	8	8	8	8	8
BELRIDGE SOUTH	686	695	711	721	728	746	751	753	763	770	692	668
South Belridge Area—Shallow	684	693	709	719	726	744	749	751	761	768	690	666
Middle Belridge Area—Shallow	2	2	2	2	2	2	2	2	2	2	2	2
BUENA VISTA	875	887	906	924	938	951	962	972	975	976	968	972
Buena Vista Front	148	146	149	149	146	148	149	151	151	150	149	150
Buena Vista Hills	727	741	757	775	792	803	813	821	824	826	819	822
Sec. 27	56	66	81	100	117	131	142	149	152	152	149	152
Others	671	675	676	675	675	672	671	672	672	674	670	670
CANAL—Stevens	36	35	34	34	33	33	32	32	31	31	31	33
COALINGA EAST	888	884	893	893	898	907	914	915	920	803	805	803
Main Area	668	664	673	673	674	684	696	695	697	577	580	581
Temblor	655	651	660	660	661	671	683	689	691	571	574	575
Cretaceous	13	13	13	13	13	13	13	6	6	6	6	6
Coalinga Nose Area—Eocene	155	155	155	153	154	154	154	155	157	160	158	159
Coalinga Northeast Area—Eocene	46	46	46	46	49	48	44	45	46	46	46	42
Pleasant Valley Area—Eocene	19	19	19	21	21	21	20	20	20	20	21	21
COALINGA WEST—Main	739	737	745	744	737	748	735	736	731	728	723	737
COFFEE CANYON	62	60	61	61	60	60	62	62	62	62	62	61
COLES LEVEE NORTH	74	74	75	74	77	78	77	79	79	81	81	81
Northwest Area	1	1	1	1	1	1	1	1	1	1	1	1
Richfield Western Area	73	73	74	73	76	77	76	78	78	80	80	80
Western	64	64	65	64	66	66	56	57	57	57	57	57
21-1	9	9	9	9	10	11	11	12	12	13	13	13
Western 29							2	9	9	10	10	10
COLES LEVEE SOUTH	29	29	29	30	30	31	33	36	35	37	50	51
EDISON	144	153	152	151	153	153	155	157	163	162	170	179
First Duff	76	79	80	80	79	78	78	76	71	64	64	61
Second Duff	66	72	69	67	71	73	72	74	77	76	76	78
Fairfax	2	2	3	4	3	2	3	2	3	2	2	4
Fractured Schist							2	5	12	20	28	36
ELK HILLS	363	397	432	456	470	481	502	501	242	239	245	248
Hay-Carmen Area												
Central Area	362	396	431	456	470	481	502	501	242	239	245	248
Upper	359	393	430	455	469	480	502	501	242	239	245	248
Lower	3	3	1	1	1	1						
Northwest	1	1	1									
FRESNO AREA	109	108	110	118	118	115	117	123	129	132	138	146
BURREL	2	2	2	2	2	2	2	2	2	1	2	2
HELM	25	25	27	29	30	32	31	35	35	39	44	47
Temblor	3	2	3	3	3	4	4	4	4	4	5	5
Upper	2	2	3	3	3	4	4	4	4	4	5	5
Lower	1											
Eocene	22	23	24	26	27	28	27	31	31	35	39	42
LANARE	4	3	3	4	5	5	5	7	10	11	13	15
Miocene	2	1	1	1	2	1	2	3	6	7	9	11
Eocene	2	2	2	3	3	4	3	4	4	4	4	4
PANOCHE CREEK												
RAISIN CITY	31	32	34	35	34	30	32	31	31	31	30	31
Miocene	19	20	22	23	22	21	22	21	22	23	22	23
Eocene	12	12	12	12	12	9	10	10	9	8	8	8
RIVERDALE	47	46	44	48	47	46	47	48	51	50	49	51
Miocene	22	21	18	20	19	19	19	19	21	20	21	22
Eocene	25	25	26	28	28	27	28	29	30	30	28	29
FRUITVALE—Martin-Kerneo	190	190	191	194	187	188	185	186	185	188	189	191
GREELEY	92	92	91	92	93	93	92	95	95	97	87	89
Greeley	12	12	12	12	12	12	12	12	12	12	12	12
11-2	80	80	79	80	81	81	80	83	83	85	75	77
KERN FRONT—All Pools	559	559	559	560	557	557	560	565	569	578	581	583
KERN RIVER—All Pools	2,162	2,168	2,174	2,183	2,185	2,195	2,197	2,207	2,204	2,199	2,196	2,211
KETTLEMAN NORTH DOME	277	275	278	280	294	279	280	278	280	280	286	291
Temblor	218	217	218	220	223	214	217	214	215	215	218	217
North	124	124	125	125	130	123	123	121	119	122	123	121
South	94	93	93	95	93	91	94	93	96	93	95	96
Vaqueros	32	33	33	34	36	36	37	39	40	40	40	42
Eocene	27	25	27	26	35	29	26	25	25	25	28	32
LOST HILLS	371	370	372	373	378	378	378	374	376	378	383	386
Main Area	344	343	345	346	351	351	351	347	349	351	357	360
Williamson Area	27	27	27	27	27	27	27	27	27	27	26	26
McKITTRICK DISTRICT	329	330	331	334	335	332	341	346	351	349	347	357
ANDERSON							1	2	4	5	8	10
CYMRIC	56	56	56	58	59	59	61	63	62	60	60	63
McKITTRICK	226	227	227	228	228	226	229	229	230	228	223	224
McKITTRICK FRONT	35	35	36	36	36	35	38	40	43	43	43	43
Upper	14	14	15	15	15	14	17	19	22	23	23	23
Lower	21	21	21	21	21	21	21	21	21	20	20	20
TEMBLOR RANCH	12	12	12	12	12	12	12	12	12	12	12	12
54-21												1
Brunt										1	1	4
MIDWAY-MARICOPA DISTRICT	2,728	2,735	2,731	2,737	2,754	2,756	2,755	2,763	2,757	2,757	2,765	2,762
Lake View	48	47	47	46	48	48	48	49	49	50	47	50
Gibson	11	11	11	11	11	12	12	12	12	12	12	12
Maricopa Flat	46	47	47	46	48	48	46	47	45	44	45	47
Midway East	631	633	639	642	642	638	634	634	634	636	639	637
Midway West	1,905	1,911	1,899	1,904	1,916	1,922	1,925	1,932	1,928	1,925	1,932	1,924
Quality	58	57	59	59	60	59	60	58	57	57	59	58
Republic	23	23	23	23	23	23	23	23	23	23	21	21
Section 6	6	6	6	6	6	6	6	6	6	6	6	6
Santiago							1	2	3	4	4	6
MOUNT POSO DISTRICT	464	474	481	482	480	478	474	480	484	480	479	480
BAKER	20	20	18	20	20	20	20	20	20	20	20	20
DOMINION	33	32	35	36	35	34	35	38	40	37	37	39
DORSEY	33	35	35	36	36	35	36	36	36	36	35	36
DYER CREEK												
MOUNT POSO—Main Area	306	307	310	310	309	310	310	309	310	309	311	311
NORTH MOUNT POSO	60	66	69	65	66	64	58	62	63	63	62	61
SUNSET	7	9	9	10	9	10	10	10	10	10	9	9
VEDDER	5	5	5	5	5	5	5	5	5	5	5	4
WEST MOUNT POSO												
MOUNTAIN VIEW	144	143	145	141	138	138	133	135	137	131	130	130
Northeast Area	58	58	56	54	53	53	53	53	57	52	52	51
Southeast Area	70	69	73	72	70	70	64	66	64	64	63	63
Earl Fruit Area	6	6	6	5	5	5	5	5	5	5	5	5
Arvin Area	10	10	10	10	10	10	11	11	11	10	10	11
PALOMA	6	5	6	5	7	10	10	11	13	16	15	18
Paloma	6	0	6	5	7	10	10	11	13	16	15	18
Symons												

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SAN JOAQUIN VALLEY—Continued	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
POSO CREEK DISTRICT	178	183	180	186	187	186	187	185	188	185	188	187
McVAN	10	10	9	10	12	10		9	10	10	10	10
PREMIER	164	168	166	170	169	169	170	168	170	166	169	168
PREMIER (East)	4	5	5	6	6	7	8	8	8	9	9	9
RIO BRAVO—Rio Bravo—Vedder	99	96	97	95	98	97	96	96	94	95	95	96
ROUND MOUNTAIN DISTRICT	233	233	234	237	238	241	244	249	253	257	259	259
Main Area	138	138	139	139	138	138	138	138	138	138	138	139
Jewett	43	43	43	43	43	43	43	43	43	43	43	43
Vedder	95	95	96	96	95	95	95	95	95	95	95	96
Northwest Area—Vedder	42	41	42	43	43	43	43	43	43	43	44	43
Pyramid Area—Vedder	46	47	45	46	46	45	43	47	4	51	51	50
West Area—Vedder	6	6	6	6	6	6	6	6	6	6	6	6
North Sharkstooth	1	1	2	3	5	9	14	15	17	19	20	21
STRAND—Stevens	17	17	16	16	16	16	17	16	17	17	15	16
Upper	10	10	9	9	9	10	10	9	10	10	9	10
Lower	7	7	7	7	7	6	7	7	7	7	6	6
STRAND—EAST	6	6	7	7	7	7	7	7	7		7	7
TEN SECTION—Stevens	113	115	115	115	112	111	110	112	120	12	120	119
WASCO	13	12	12	12	12	10	11	10	10	1	10	9
Shale	1	1	1	1	1	.....	1	1	1		1	1
Vedder	12	11	11	11	11	10	10	9	9	9	9	8
WHEELER RIDGE—All Pools	34	34	34	34	34	34	34	34	34	34	34	34
WILLIAMS—Williams	25	26	26	27	27	27	27	27	27	27	27	27
OTHER FIELDS	82	90	100	114	119	123	137	146	155	164	174	177
ANT HILL	5	5	7	8	10	10	12	13	16	19	18	20
ANTELOPE PLAINS	1	1	1	1	1	1	1	1	.....	.....	.....	.....
ARVIN	1	2	2	2	2	2	2	2	2	2	2	2
BELLEVUE	2	3	3	3	3	3	3	3	3	3	3	3
BLACKWELLS CORNER	14	16	13	16	16	14	15	16	15	15	21	21
CANFIELD RANCH	1	1	1	1	1	1	1	1	1	1	1	1
CHICO MARTINEZ	1	.....	3	3	3	.....	3	4	4	4	.....	3
DEVIL'S DEN	.....	.....	.....	.....	1	.....	2	.....	2	2	2	1
GOSFORD	2	1	1	1	1	2	2	2	2	2	2	2
GOULD HILLS	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
GRAPEVINE	.....	.....	.....	.....	.....	.....	1	1	1	1	1	.....
JACALITOS	19	20	25	35	34	41	44	45	45	48	55	55
KERN BLUFF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McDONALD ANTICLINE	.....	.....	.....	.....	.....	.....	1	1	2	2	3	3
McCLUNG	1	1	1	1	1	1	1	1	1	1	1	1
PYRAMID HILLS	21	22	22	22	21	22	22	25	25	25	25	22
QUINN RANCH	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
RACE TRACK HILL	1	2	2	3	4	4	6	7	9	11	10	10
ROSEDALE RANCH	.....	.....	1	1	1	2	1	2	3	4	4	4
SHAFTER	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SHEEP SPRINGS	3	3	4	3	4	3	3	4	5	5	5	5
TEJON RANCH	6	10	12	12	14	15	15	16	17	17	18	21
TERRA BELLA	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
UNION AVENUE	3	3	2	2	2	2	2	2	2	2	3	3
VALLECITOS	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SAN JOAQUIN VALLEY TOTAL	12,188	12,271	12,395	12,496	12,562	12,627	12,685	12,753	12,547	12,454	12,414	12,473

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COASTAL	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
SANTA BARBARA DISTRICT	128	130	128	131	130	128	129	130	129	80	130	137
CAPITAN	49	51	50	52	51	50	52	53	54	3	53	59
Vaqueros	35	35	34	35	35	34	35	35	35	1	34	35
Sespe	14	15	15	16	15	15	15	15	15	.....	12	14
Coldwater	.....	.....	.....	.....	.....	.....	.....	1	1	.....	1	1
Covarrubias	.....	1	1	1	1	1	2	2	3	2	6	9
ELWOOD	63	63	64	64	65	63	62	62	61	63	63	63
Vaqueros	56	56	57	57	58	57	56	56	55	57	57	57
Sespe	7	7	7	7	7	6	6	6	6	6	6	6
SANTA BARBARA—Vaqueros	15	15	14	15	14	15	15	15	14	14	14	15
SUMMERLAND—All Pools	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SANTA MARIA DISTRICT	686	693	690	691	706	731	741	741	748	752	731	751
CASMALIA—All Pools	18	18	16	1	1	20	19	20	19	20	1	1
BRADLEY CANYON	2	2	2	2	2	2	2	2	1	.....	.....	.....
Miocene	1	1	1	1	1	1	1	1	1	.....	.....	.....
Sisquoc	1	1	1	1	1	1	1	1	.....	.....	.....	.....
CAT CANYON	63	64	58	61	62	61	64	63	65	66	68	69
East	8	10	7	7	10	9	10	8	8	8	9	9
West	27	26	23	26	24	23	24	24	24	25	25	25
Las Flores	28	28	28	28	28	29	30	31	33	33	34	35
GATO RIDGE—Tognazzini	30	28	27	31	33	34	33	34	36	32	32	33
LOMPOC—All Pools	30	30	30	29	29	30	31	30	30	30	31	32
ORCUTT—All Pools	199	199	199	199	199	200	201	201	199	198	198	199
SANTA MARIA VALLEY	343	352	356	367	379	383	390	390	397	405	400	415
TINAQUAIC	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
ZACA CREEK	.....	.....	1	1	1	1	1	1	1	1	1	2
VENTURA DISTRICT	644	646	653	655	666	671	672	682	665	640	646	651
PADRE CANYON—All Pools	24	24	24	23	24	25	24	24	25	26	27	27
RINCON	86	86	88	85	87	91	91	92	96	95	101	102
Hobson-Tomson-Miley	84	84	86	83	85	89	89	90	94	93	99	100
Deep	2	2	2	2	2	2	2	2	2	2	2	2
SAN MIGUELITO	34	33	35	32	30	35	35	35	34	35	33	34
Grubb One	30	29	30	27	25	30	30	30	29	29	27	27
Grubb Two	4	4	5	5	5	5	5	5	5	6	6	7
VENTURA AVENUE	492	495	506	507	517	512	514	523	510	483	484	487
Shallow	339	342	349	343	349	343	341	347	337	309	309	309
A-3, B-3	31	30	31	31	31	31	29	31	30	22	21	21
B-1, 2	2	2	2	2	2	2	3	3	3	3	3	3
B-4, B-5	11	13	13	14	14	14	14	14	13	5	5	7
C-1, 2 West	3	3	4	3	4	4	4	5	5	5	.....	1
C-3 West	28	29	28	29	30	29	28	28	27	14	15	13
C-6 West	2	2	2	2	2	2	2	2	1	1	.....	.....
"C" Block	262	263	269	262	266	261	261	264	258	259	264	264
Deep	153	153	157	164	168	169	173	176	173	174	175	178
D-3	18	17	19	17	20	21	21	22	21	22	21	21
D-4	4	4	4	4	4	4	4	4	4	4	4	4
D-5 West	44	44	44	44	43	42	44	45	47	46	47	48
D-5, 6 East	54	55	56	63	63	63	64	64	61	61	59	59
D-6 West	22	22	21	23	25	24	23	23	23	23	23	24
D-7	11	11	13	13	13	15	17	18	17	18	21	22
VENTURA-OJAI												
TIPTOP-FRESNO CANYON	8	8	.....	8		8	8	8	.....	1	1	1

There's Longer Life in

D+B

Sucker Rods and Couplings

Here are just a few of the reasons why a D+B Sucker Rod string gives you more efficient pumping service and trouble-free operation.

D+B coupling faces are mathematically square with axis of threads to provide a straight, true shouldered joint—eliminates pin breaks. Case hardened to correct depth.
Manufactured from metallurgically controlled steel of uniform quality! Refined grain structure and proper grain flow provide maximum strength and ductility.
All heats are inspected for non-metallic inclusions by metallographic methods. Finished D+B Sucker Rods are inspected to assure rigid adherence to API specifications.
D+B Superloy Plus Rods—heat-treated from end to end by D+B precipitation hardening process for heavy pumping in severely corrosive wells.
D+B Heatreat Rods—heat treated by D+B Patented Quench Method to give maximum service in wells of non-corrosive nature.

D+B

D+B DIVISON

EMSCO DERRICK & EQUIPMENT COMPANY

Los Angeles, California Dallas, Texas

"PACEMAKERS IN OIL FIELD EQUIPMENT DESIGN"

D+B

SUCKER RODS & COUPLINGS

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COASTAL—Continued	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
SANTA PAULA-NEWHALL DISTRICT	627	635	635	644	649	624	631	641	646	653	656	657
FILLMORE	189	193	195	198	199	181	183	185	183	187	184	185
BARDSDALE	31	31	32	34	35	35	35	35	35	35	35	36
Elkins Area	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other Areas	30	30	32	34	35	35	35	35	35	35	35	36
SESPE CANYON	21	21	21	21	18	18	21	23	20	23	20	19
SHIELLS CANYON	136	140	141	142	145	127	126	126	127	128	128	129
TOPA-TOPA	1	1	1	1	1	1	1	1	1	1	1	1
NEWHALL	99	102	105	103	106	105	108	112	116	118	123	118
DEL VALLE	38	39	42	39	39	39	40	42	42	43	47	46
East	12	13	14	14	14	13	14	15	14	13	16	15
DL4-DL5	1	2	2	2	2	2	2	2	2	1	1	1
Sherman	6	6	7	7	7	7	7	7	6	6	8	7
Del Valle	2	2	2	2	2	2	3	4	4	4	4	4
Bering	3	3	3	3	3	2	2	2	2	2	3	3
West	26	26	28	25	25	26	26	27	28	30	31	31
Sterry	3	3	3	3	3	3	3	3	3	3	3	3
Sepulveda	4	4	4	4	4	4	4	4	4	5	5	5
Vasquez-Videgain	19	19	21	18	18	18	18	19	20	20	21	21
Vasquez-Videgain 13	.....	.....	.....	.....	.....	1	1	1	1	2	2	2
ELSMERE CANYON	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
NEWHALL	8	8	8	8	8	8	8	8	8	8	8	8
NEWHALL-POTRERO	36	37	37	37	39	38	40	40	42	41	42	39
Others	36	37	36	36	38	37	39	39	41	40	40	37
6th Zone	.....	.....	1	1	1	1	1	1	1	1	2	2
OAK CANYON	12	13	13	13	15	15	15	15	15	16	16	16
Maxwell Weaver	1	1	1	1	1	1	1	1	1	1	1	1
Wickham	3	3	3	3	3	3	3	3	3	3	3	3
Gilmour	2	3	3	6	4	4	4	4	4	4	4	4
Lechler	6	6	6	6	6	6	6	6	6	7	7	7
9500′ Sand	.....	.....	.....	.....	1	1	1	1	1	1	1	1
PICO CANYON	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
WILEY-TOWSLEY CANYON	4	4	4	4	4	4	4	4	4	4	4	4
HALSEY CANYON	1	1	1	1	.....	.....	.....	.....	.....	1	1	1
RAMONA	.....	.....	.....	1	1	1	1	3	5	5	5	4
PIRU	82	81	75	82	82	73	76	77	78	76	79	80
HOLSER CANYON	1	1	1	1	1	1	1	1	1	.....	.....	1
HOPPER CANYON	7	7	9	9	9	8	8	8	10	10	10	10
MODELO	7	6	6	7	6	6	7	8	6	5	7	7
TAPO-EUREKA	8	8	1	8	8	1	2	1	1	1	1	1
TEMESCAL	21	21	21	21	21	21	21	21	22	22	22	22
TORREY CANYON	38	38	37	36	37	36	37	38	38	38	39	39
SANTA PAULA	198	200	200	203	203	206	206	209	210	212	211	215
EX-MISSION	21	21	21	21	20	21	21	22	21	22	21	22
SISAR-SILVERTHREAD	67	69	67	70	69	69	69	68	69	69	68	71
SOUTH MOUNTAIN	101	102	103	104	106	108	108	111	112	113	114	115
SULPHUR MOUNTAIN	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
TIMBER CANYON	8	7	8	7	8	8	8	8	8	8	8	7
WEST MOUNTAIN	1	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....
SIMI-CONEJO-OXNARD	59	59	60	58	59	59	58	58	59	60	59	59
CONEJO	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
OXNARD	5	5	6	4	5	5	4	4	4	5	4	4
SIMI	54	54	54	54	54	54	54	54	55	55	55	55
OTHER COASTAL COUNTIES	23	21	21	20	20	20	20	20	20	20	20	20
SAN LUIS OBISPO	13	12	12	11	11	11	11	11	11	11	11	11
EDNA	10	9	9	9	9	9	9	9	9	9	9	9
HUASNA	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
PISMO	3	3	3	2	2	2	2	2	2	2	2	2
Martin	1	1	1	1	1	1	1	1	1	1	1	1
East Alberta	2	2	2	1	1	1	1	1	1	1	1	1
SAN MATEO—HALF MOON BAY	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SANTA CLARA	10	9	9	9	9	9	9	9	9	9	9	9
LOS GATOS	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SARGENT	9	9	9	9	9	9	9	9	9	9	9	9
COASTAL TOTAL	2,108	2,125	2,127	2,141	2,171	2,174	2,193	2,214	2,208	2,145	2,183	2,216

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LOS ANGELES BASIN	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
ALAMITOS HEIGHTS	36	37	37	36	37	37	38	38	37	37	35	34
Bryant	1	1	1	1	1	1	2	2	2	2	.....	.....
Others	35	36	36	35	36	36	36	36	35	35	35	34
ALISO CANYON	27	27	29	27	30	29	28	30	30	31	29	29
Porter	15	14	15	13	14	13	12	13	12	13	12	12
Sesnon	11	11	12	12	14	14	14	15	16	16	15	15
Sesnon Faulted	1	1	1	1	1	1	1	1	1	1	1	1
Eocene	.....	1	1	1	1	1	1	1	1	1	1	1
BREA-OLINDA DISTRICT	359	358	358	359	358	353	366	361	360	330	333	332
BREA	102	102	104	104	105	105	105	104	104	76	76	77
OLINDA	228	227	225	226	224	220	231	227	225	224	225	223
TONNER	29	29	29	29	29	28	30	30	31	30	32	32
COYOTE EAST	156	152	152	153	154	155	156	155	156	155	157	158
Graham-Loftus-Hualde	104	102	102	103	104	104	105	103	104	103	104	105
Mathis	32	30	30	30	30	30	30	31	31	31	32	32
Stern	20	20	20	20	20	21	21	21	21	21	21	21
COYOTE WEST	175	171	175	175	180	182	187	185	185	187	188	191
Murphy	89	89	90	92	92	92	92	92	89	88	87	88
Ninety-nine	32	32	32	32	32	34	36	36	40	41	43	43
Ninety-nine Lower	2	2	2	3	4	4	6	5	6	7	7	7
Emery	51	47	50	47	51	51	52	51	49	50	50	52
East	21	18	20	19	21	21	22	22	20	21	21	24
West	30	29	30	28	30	30	30	29	29	29	29	28
McNally	1	1	1	1	1	1	1	1	1	1	1	1
DOMINGUEZ	307	311	311	313	311	311	313	313	315	315	315	315
Pliocene	205	209	209	211	209	210	211	212	214	215	216	216
5th West Block	4	5	5	5	5	5	5	5	5	5	5	5
Others	201	204	204	206	204	205	206	207	209	210	211	211
Miocene	102	102	102	102	102	101	102	101	101	100	99	99
7th Central Block	15	15	15	15	15	15	15	15	15	16	16	16
8th Central Block	20	20	20	20	20	20	20	20	19	19	19	19
South Central Block	16	16	16	16	16	16	16	16	16	16	16	16
South-West Block	5	5	5	5	5	5	5	5	5	5	5	5
West Block	34	34	34	34	34	34	34	34	34	33	33	33
West Town Lot Block	12	12	12	12	12	11	12	11	12	11	11	11

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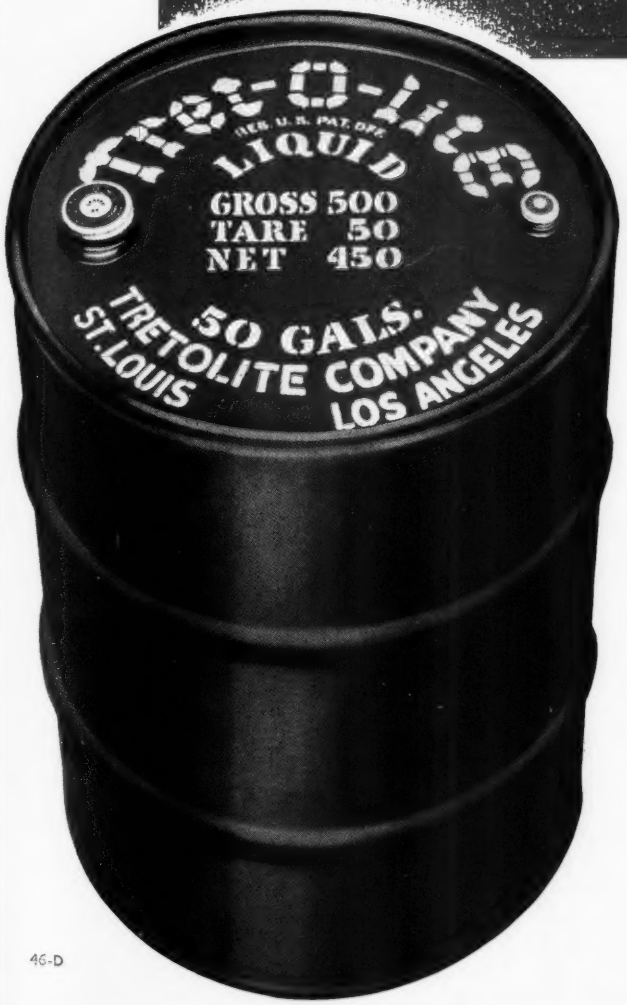
LOS ANGELES BASIN—Continued	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
EL SEGUNDO	34	36	35	35	35	33	34	33	33	33	33	33
West Area	1	1	1	1	1	1	1	1	1	1	1	1
Others	33	35	34	34	34	32	33	32	32	32	32	32
HUNTINGTON BEACH NEW	357	355	363	366	372	370	373	37	372	375	373	376
On-Shore	177	173	177	178	181	178	179	175	174	176	174	174
Tar Zone	43	39	42	43	44	41	43	41	38	39	38	38
Main Area	106	106	106	105	107	107	105	103	105	106	105	104
A-37 Area	28	28	29	30	30	30	3	30	30	30	30	31
A-66	.....	.....	.....	.....	.....	.....	1	1	1	1	1	1
Off-Shore	180	182	186	188	191	192	194	198	198	199	199	202
Main	134	135	136	135	136	136	136	138	138	139	139	142
Jones	46	47	50	53	55	56	58	60	60	60	60	60
HUNTINGTON BEACH OLD	451	448	447	453	448	451	449	451	451	455	460	462
Bolsa Area	75	75	75	77	78	79	80	82	83	85	85	88
Tar Bolsa	8	8	8	8	8	8	8	8	8	8	8	
Ashton	67	67	67	69	70	71	72	74	75	77	77	80
Upper	30	30	30	31	32	32	32	33	34	36	36	38
Lower	37	37	37	38	38	39	40	41	41	41	41	42
Other Areas	376	373	372	376	370	372	369	369	368	370	375	374
Tar Bolsa	50	50	50	50	50	49	49	48	50	50	50	49
Ashton	326	323	322	326	320	323	320	321	318	320	325	325
INGLEWOOD	303	306	307	306	305	305	307	306	306	306	306	306
Vickers-Machado	221	224	224	224	224	224	224	222	223	223	223	223
Rindge	33	33	33	33	33	33	33	34	34	34	34	34
Rubel	23	24	24	23	22	22	22	22	22	22	22	22
Moynier	.....	.....	1	1	2	2	3	3	3	3	3	3
Sentous	26	25	25	25	24	24	25	25	24	24	24	24
LONG BEACH	1,154	1,146	1,142	1,142	1,149	1,139	1,136	1,135	1,133	1,133	1,134	1,138
Old Area	1,135	1,127	1,123	1,123	1,130	1,120	1,117	1,11	1,114	1,114	1,115	1,119
Upper	1,130	1,122	1,118	1,118	1,125	1,115	1,112	1,111	1,109	1,109	1,110	1,113
De Soto	5	5	5	5	5	5	5	5	5	5	5	6
Northwest Extension Area	19	19	19	19	19	19	19	19	19	19	19	19
MONTEBELLO	343	343	345	345	349	350	350	348	348	348	347	345
Main Area—Baldwin One-Two-Three	224	224	223	225	228	229	231	230	232	233	232	233
East Area	16	15	15	15	15	15	15	15	15	15	15	13
Crus	1	1	1	1	1	1	1	1	1	1	1	1
Nutt	15	14	1	14	14	14	14	14	14	14	14	12
West Area	103	104	107	105	106	106	104	103	101	100	100	99
Fifth Zone	10	10	10	10	10	10	11	11	11	11	11	10
Sixth Zone	3	3	4	4	5	5	4	3	2	3	3	3
Masser Zone	11	11	11	11	11	10	9	9	9	9	9	9
Seventh Zone	9	9	9	9	9	9	9	9	9	7	8	8
Eighth Zone	69	70	72	70	70	71	70	69	66	66	65	65
Ninth Zone	1	1	1	1	1	1	1	2	4	4	4	4
PLAYA DEL REY	122	121	122	124	123	122	121	122	120	118	116	116
Del Rey Hills Area	16	15	16	18	17	17	16	16	15	14	12	12
Venice Area	106	106	106	106	106	105	105	106	105	104	104	104
POTRERO	25	24	24	25	25	25	25	25	25	25	25	25
Central Area	11	10	10	11	11	11	11	11	11	11	11	11
East Area	9	9	9	9	9	9	9	9	9	9	9	9
Potrero No. 2	1	1	1	1	1	1	1	1	1	1	1	1
Others	8	8	8	8	8	8	8	8	8	8	8	8
West Area	5	5	5	5	5	5	5	5	5	5	5	5
West Area	5	5	5	5	5	5	5	5	5	5	5	3
RICHFIELD	305	303	306	307	306	308	308	309	309	307	310	312
East Area	230	227	231	231	229	231	231	232	232	229	232	233
West Area	75	76	75	76	77	77	77	77	77	78	78	78
ROSECRANS-ATHENS	177	178	181	180	177	181	183	183	182	180	180	178
Rosecrans Area	133	132	135	134	132	135	136	136	135	133	134	134
Maxwell-Hoge	20	20	20	20	22	23	23	23	23	23	23	23
Zinns	20	20	20	20	19	19	19	19	19	19	20	21
Miocene	93	92	95	94	91	93	94	94	93	91	91	90
Banks Block	1	1	2	2	2	2	2	2	2	2	2	2
Seventh	80	79	81	80	77	79	80	80	78	76	76	75
Eighth	12	12	12	12	12	12	12	12	13	13	13	13
Athens Area	44	46	46	46	45	46	47	47	47	47	46	44
Upper	12	12	12	12	11	12	12	12	12	12	11	11
Lower	27	28	28	27	27	27	28	28	28	28	28	27
Miocene	5	6	6	7	7	7	7	7	7	7	7	6
SANTA FE SPRINGS	558	557	556	554	553	553	557	556	551	548	550	551
SEAL BEACH	108	108	106	108	112	112	114	114	112	116	118	119
Bixby Selover-South Block	25	25	25	25	25	25	25	25	25	25	25	25
North Block-Selover	1	2	2	2	2	2	2	2	2	2	2	2
South Block	67	66	64	64	66	66	65	65	63	64	64	63
Wasem	45	45	44	44	45	45	44	44	43	44	44	43
McGrath	22	21	20	20	21	21	21	21	20	20	20	20
North Block	15	15	15	17	19	19	22	22	22	25	27	29
Wasem East	6	6	6	6	6	6	6	6	6	6	6	6
McGrath East	8	8	8	9	11	11	13	13	13	16	19	21
Selover-West	1	1	1	1	1	1	1	1	1	1	1	1
McGrath West	.....	.....	.....	.....	.....	.....	1	1	1	1	.....	.....
San Gabriel West	.....	.....	.....	1	1	1	1	1	1	1	1	1
TORRANCE-HERMOSA	679	691	694	691	701	700	704	704	698	706	710	712
Hermosa Area	5	5	5	5	5	5	6	6	6	6	6	6
Torrance Area	626	639	641	638	647	646	649	649	642	648	652	654
Main	387	394	406	403	410	411	412	413	412	419	424	427
Thirty-four	149	153	149	146	147	147	149	148	142	141	138	139
D. & B.	37	37	33	35	36	33	33	35	35	35	34	32
Vesta	53	55	53	54	54	55	55	53	53	53	56	56
Torrance Extension Area	48	47	48	48	49	49	49	49	50	52	52	52
WHITTIER	161	159	160	160	161	161	162	165	162	159	161	162
Central Area	147	146	147	147	148	148	148	148	145	144	146	145
La Habra Area	3	3	3	3	3	3	3	7	7	7	7	6
Rideout-Heights Area	11	10	10	10	10	10	11	10	10	8	8	11
WILMINGTON	1,305	1,317	1,328	1,338	1,355	1,369	1,372	1,382	1,397	1,411	1,435	1,449
Fault Block I (Terminal Area)	96	95	98	99	102	106	109	115	118	118	121	121
Ranger-Terminal	75	74	77	78	80	84	85	89	92	92	94	94
Ford	21	21	21	21	22	22	24	26	26	26	27	27
Fault Block II (Terminal Area)	164	165	166	169	175	178	182	185	187	194	200	208
Tar-Ranger	64	65	65	68	72	72	73	76	77	80	84	88
Terminal	82	81	81	81	82	84	84	86	86	87	89	91
Ford	14	15	16	16	17	18	21	19	20	22	23	25
U. P.	4	4	4	4		4	4	4	4	5	4	4
Fault Block III (Terminal Area)	117	117	11	118	118	120	120	121	122	125	125	126
Tar-Ranger	77	78	79	78	78	79	79	80	81	84	84	84
Terminal	39	38	38	38	39	40	40	40	40	40	40	41
Upper	25	25	25	25	25	25	26	26	26	26	26	27
Lower	14	13	13	13	14	15	14	14	14	14	14	14
U. P.	1	1	1	2	1	1	1	1	1	1	1	1
Fault Block IV (Harbor Area)	186	186	188	187	191	190	183	182	184	186	189	190
Ford	.....	.....	1	1	1	2	2	2	3	3	4	4
Tar	2		2	2	2	2	2	3	3	5	5	5

little drops of water

Little grains of salt



46-D

make a mighty ocean but a mighty poor crude

Whether you have a fresh or salt water emulsion problem on your lease you can depend on your Tretolite field engineer to solve it for you—quickly and accurately. By training and experience he is a specialist in the treatment of all types of crude oil emulsions. Add to his personal knowledge thousands of man-years of laboratory and field research results that are catalogued at the Tretolite laboratories—and you get an unbeatable combination. For economical, fast oil dehydration consult the Tretolite field engineer in your area.

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Complete Service for Every Field

NUMBER OF PRODUCING WELLS
CALIFORNIA — 1945

LOS ANGELES BASIN—Continued	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
Terminal	184	184	185	184	188	186	179	177	178	178	180	181
Fault Block V (Harbor Area)—Terminal	19	20	21	21	21	22	21	22	22	22	22	22
Fault Block IV & V (Harbor Area) Ranger	247	254	256	258	261	261	267	266	272	275	279	282
Town Lot Area	476	480	481	486	487	492	490	491	492	491	499	501
Tar, Ranger & Terminal	446	450	451	456	458	463	461	462	464	463	470	472
Ford	30	30	30	30	29	29	29	29	28	28	29	29
OTHER FIELDS	164	169	171	169	172	183	179	184	179	166	171	183
BUENA PARK	2	2	2	2	2	2	2	2	2	2	2	2
East	1	1	1	1	1	1	1	1	1	1	1	1
West	1	1	1	1	1	1	1	1	1	1	1	1
CHINO	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KRAEMER	10	10	10	10	10	10	10	10	10	10	10	10
LAWNDALE	3	1	2	3	3	4	3	2	2	2	2	2
LOS ANGELES DISTRICT	91	91	91	91	92	92	91	91	91	91	91	91
BEVERLY HILLS	2	2	2	2	2	2	2	2	2	2	2	2
LOS ANGELES	82	82	82	82	82	82	82	82	82	82	82	82
SALT LAKE	7	7	7	7	8	8	7	7	7	7	7	7
NEWPORT BEACH	2	2	3	3	7	11	14	22	33	37	42	43
PUENTE HILLS	22	29	29	28	25	26	24	22	2	.....	.....	.....
TURNBULL	6	6	6	6	6	9	9	9	9	9	9	7
WESTERN AVENUE	2	2	2	2	2	2	2	2	2	2	2	2
YORBA LINDA	26	26	26	24	24	26	23	23	26	11	11	22
Shell	13	13	13	13	13	13	13	12	11	.....	.....	11
Smith	13	13	13	11	11	13	10	11	15	11	11	11
SANSINENA	.....	.....	.....	.....	1	1	1	1	2	2	2	2
LOS ANGELES BASIN TOTAL	7,306	7,317	7,349	7,366	7,413	7,429	7,462	7,472	7,461	7,441	7,486	7,526
STATE TOTAL	21,602	21,713	21,871	22,003	22,146	22,230	22,340	22,439	22,216	22,040	22,083	22,215

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CLEAN MUD

Eliminates all drilling troubles due to excessive sand.

CLEAN MUD

1. Reduces wear on mud handling equipment—pump, drill pipe, swivel, bit, etc.
2. Makes it possible to control weight of mud by reducing sand content.
3. Produces better filter cake.
4. Reduces water loss.
5. Reduces viscosity, thereby lowering H. P. required for circulating.
6. Reduces time and expense on fishing jobs.
7. Eliminates the main hazards in setting casing.

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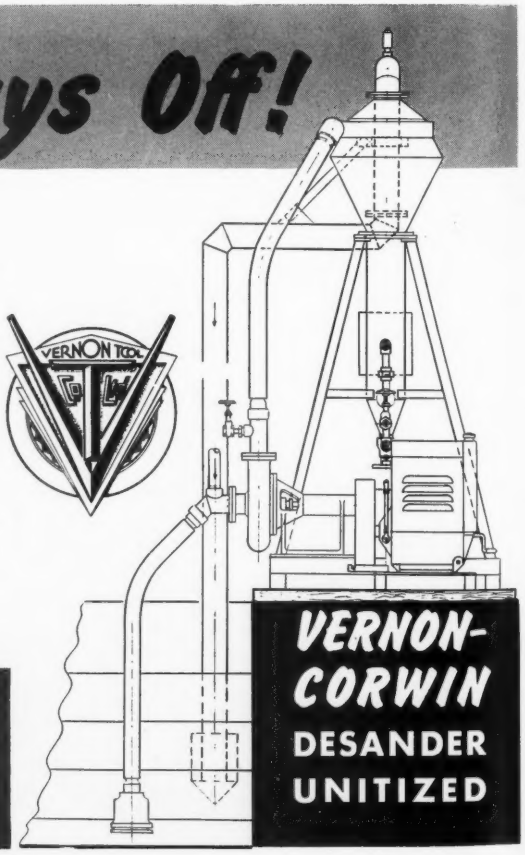

VERNON-CORWIN DESANDER UNITIZED

VERNON TOOL CO, Ltd.
1101 MERIDIAN AVENUE, ALHAMBRA, CALIFORNIA
Export Distributors
THE NATIONAL SUPPLY EXPORT CORPORATION

NUMBER OF SHUT-IN WELLS
CALIFORNIA — 1945

Prepared by the Conservation Committee of California Oil Operators

	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
SAN JOAQUIN VALLEY												
BELRIDGE NORTH	56	59	53	52	57	51	49	53	60	59	66	63
Shallow	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	3	3
Temblor	3	3	3	4	4	4	4	5	5	5	10	10
"R" Sand	5	6	6	6	6	6	5	6	6	6	7	6
Wagon Wheel	45	47	44	42	47	41	40	42	49	47	46	44
"Y" Sand	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
BELRIDGE SOUTH	14	18	18	20	23	18	16	19	18	21	101	109
South Belridge Area Shallow	14	18	18	20	23	18	16	19	18	21	101	109
Middle Belridge Area Shallow	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
BUENA VISTA	14	14	15	20	25	31	25	26	29	34	44	42
Buena Vista Front	1	5	4	4	8	7	8	9	10	11	12	11
Buena Vista Hills	13	9	11	16	17	24	17	17	19	23	32	31
Sec. 27	1	1	2	4	4	6	6	5	6	10	15	14
Others	12	8	9	12	13	18	11	12	13	13	17	17
CANAL—Stevens	3	4	5	5	6	6	7	7	8	8	8	6
COALINGA EAST	42	48	42	47	49	45	38	42	45	172	176	179
Main Area	21	25	19	22	27	22	11	17	21	152	156	157
Temblor	21	25	19	22	27	22	11	10	14	145	149	150
Cretaceous	.....	.....	.....	.....	.....	.....	.....	7	7	7	7	7
Coalinga Nose Area Eocene	15	15	15	17	16	16	16	15	14	10	10	9
Coalinga Northeast Area Eocene	6	8	8	8	5	6	10	9	9	9	9	12
Pleasant Valley Area Eocene	.....	.....	.....	.....	1	1	1	1	1	1	1	1
COALINGA WEST—Main	41	47	41	40	49	39	33	33	42	44	46	44
COFFEE CANYON	.....	2	1	1	2	2	.....	.....	.....	.....	.....	1
COLES LEVEE NORTH	14	14	14	16	14	14	15	15	15	14	14	14
Northwest Area	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Richfield Western Area	14	14	14	16	14	14	15	15	15	14	14	14
Western	7	7	7	8	7	7	4	4	4	4	4	4
21-1	7	7	7	8	7	7	7	7	7	7	7	7
Western 29	.....	.....	.....	.....	.....	.....	4	4	4	3	3	3
COLES LEVEE SOUTH	26	26	27	28	28	28	27	25	27	25	13	13
EDISON	6	2	7	10	10	12	11	11	12	18	17	16
First Duff	2	2	3	3	4	5	4	4	7	11	9	11
Second Duff	4	.....	4	7	5	6	7	6	5	6	7	5
Fairfax	.....	.....	.....	.....	1	1	.....	1	.....	1	1	.....
Fractured Schist	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
ELK HILLS	12	11	14	22	28	31	25	37	296	305	302	299
Central Area	12	11	14	21	27	30	24	36	295	304	301	298
Upper	10	9	10	17	23	26	19	31	290	299	296	293
Lower	2	2	4	4	4	4	5	5	5	5	5	5
Northwest	.....	.....	.....	1	1	1	1	1	1	1	1	1
FRESNO AREA	14	17	20	18	20	27	25	26	24	28	26	20
BURREL	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
HELM	6	7	8	8	8	9	9	9	9	10	6	4
Temblor	1	2	2	2	2	2	1	1	1	1	1	1
Upper	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lower	1	2	2	2	2	2	1	1	1	1	1	1
Eocene	5	5	6	6	6	7	8	8	8	9	5	3
LANARE	.....	1	1	1	.....	1	.....	.....	.....	.....	1	.....
Miocene	.....	1	1	1	.....	1	.....	.....	.....	.....	1	.....
Eocene	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
PANOCHE CREEK	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
RAISIN CITY	2	1	.....	1	2	6	6	7	7	7	8	7
Miocene	2	1	.....	1	2	3	3	5	4	3	4	3
Eocene	.....	.....	.....	.....	.....	3	3	2	3	4	4	4
RIVERDALE	6	8	11	8	10	11	10	10	8	10	11	9
Miocene	5	7	10	8	9	9	9	9	8	10	9	8
Eocene	1	1	1	.....	1	2	1	1	.....	.....	2	1
FRUITVALE—Martin-Kerneo	16	16	14	12	18	21	22	23	24	21	22	21
GREELEY	1	1	1	1	1	1	1	.....	.....	.....	9	8
Greeley	1	1	1	1	1	1	.....	.....	.....	.....	.....	.....
11-2	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	9	8
KERN FRONT—All Pools	11	13	17	18	22	24	15	15	15	8	9	13
KERN RIVER—All Pools	49	45	49	54	68	67	51	42	51	63	67	56
KETTLEMAN NORTH DOME	78	87	77	77	67	81	83	88	88	90	85	84
Temblor	64	70	63	62	61	69	68	72	72	74	71	74
North	42	47	40	40	36	42	42	43	45	43	41	44
South	22	23	23	22	25	27	26	29	27	31	30	30
Vaqueros	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Eocene	14	16	14	15	6	12	15	16	16	16	13	9
LOST HILLS	2	3	3	4	3	3	2	6	5	3	2	3
Main Area	2	3	3	4	3	3	2	6	5	3	1	2
Williamson Area	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
McKITTRICK DISTRICT	7	7	7	6	6	9	3	2	3	8	7	4
ANDERSON 45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
BRUNT	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
CYMRIC	2	2	2	1	1	1	1	1	2	4	4	2
McKITTRICK	4	4	4	4	4	6	1	1	1	3	2	1
McKITTRICK FRONT	1	1	1	1	1	2	1	.....	.....	1	1	1
Upper	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....
Lower	1	1	1	1	1	1	.....	.....	.....	1	1	1
TEMBLOR RANCH	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MIDWAY-MARICOPA DISTRICT	36	46	57	61	57	56	47	51	61	66	71	80
Lake View	1	2	2	3	1	1	1	.....	1	1	4	3
Gibson	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Maricopa Flat	3	3	4	5	5	6	5	4	6	7	6	4
Midway East	11	14	13	12	15	18	17	21	21	23	24	27
Midway West	20	25	38	41	36	30	24	24	30	32	34	42
Quality	1	2	.....	.....	.....	1	.....	2	3	3	1	2
Republic	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2
Section 6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
54-21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Santiago	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MOUNT POSO DISTRICT	19	14	13	15	16	19	21	18	14	18	20	27
BAKER	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
DOMINION	5	6	3	2	2	4	3	3	1	4	4	5
DORSEY	1	.....	.....	.....	.....	1	1	1	1	1	2	1
DYER CREEK	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MOUNT POSO—Main Area	.....	.....	.....	.....	1	.....	.....	1	.....	1	.....	2
NORTH MOUNT POSO	8	5	5	11	10	12	17	13	12	12	13	16
SUNSET	4	2	2	1	2	1	.....	.....	.....	.....	1	1
VEDDER	1	1	1	1	1	1	.....	.....	.....	.....	.....	.....
WEST MOUNT POSO	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
MOUNTAIN VIEW	13	14	13	17	21	22	18	17	16	22	23	23
Northwest Area	6	6	8	10	11	11	6	6	3		7	8
Southeast Area	6	7	4	5	8	9	11	10	12	13	14	14
Earl Fruit Area	.....	.....	.....	1	1	1	1	1	1	1	1	1
Arvin Area	1	1	1	1	1	1	.....	.....	.....	1	1	.....
PALOMA	.....	1	1	2	.....	.....	1	1	1	.....	.....	.....
Paloma	.....	1	1	2	.....	.....	1	1	1	.....	.....	.....
Symons	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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Still sets the pace!

The first WILSON RIG was introduced back in the early '20's, and has been first and foremost in rig development ever since. No wonder Wilson is the most-copied Power Rig . . . for it was WILSON that pioneered the Chain Drive Transmission, Multiple Engine Drive System, the Drum Friction Clutch, Flame Hardened Brake Rings, Vaca-Manual Drum Clutch Controls, and many other outstanding features. No wonder Wilson holds the record for the deepest well drilled with a power rig. No wonder there are more Wilson Power Rigs in operation than any other make of power rig. Look to Wilson, The Pioneer of Power Rigs, to always *set the pace* for greater efficiency, long-life performance, and economy.

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2875 CHERRY AVE., LONG BEACH 6, CALIF.

PACIFIC COAST REPRESENTATIVES FOR

WILSON RIGS and WINCHES

NUMBER OF SHUT-IN WELLS
CALIFORNIA — 1945

	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
SAN JOAQUIN VALLEY—Continued												
POSO CREEK DISTRICT	11	7	12	9	9	11	9	11	9	15	14	16
McVAN	2	2	3	2	1	3	4	4	3	4	4	4
PREMIER	9	5	9	7	8	8	5	7	6	10	9	11
PREMIER (East)	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1
RIO BRAVO—Rio Bravo—Vedder	2	5	4	6	3	2	3	3	5	4	4	3
ROUND MOUNTAIN DISTRICT	4	4	4	3	4	6	6	5	3	3	3	4
Main Area	1	1	.....	.....	1	1	1	1	1	1	1	.....
Jewett	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Vedder	1	1	.....	.....	1	1	1	1	1	1	1	.....
Northeast Area Vedder	1	2	1	1	1	2	1	1	1	1	1	2
Pyramid Area Vedder	1	.....	2	1	1	2	4	2	1	1	1	2
West Area Vedder	1	1	1	1	1	1	.....	.....	.....	.....	.....	.....
North Sharkstooth	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
STRAND—Stevens	.....	.....	1	1	1	1	.....	1	.....	.....	2	1
Upper	.....	.....	1	1	1	.....	.....	1	.....	.....	1	.....
Lower	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	1
STRAND—EAST	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
TEN SECTION—Stevens	10	8	8	8	10	11	12	10	2	2	2	3
WASCO	.....	1	1	1	1	2	1	2	2	2	2	3
Shale	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Vedder	.....	1	1	1	1	1	1	2	2	2	2	3
WHEELER RIDGE—All Pools	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
WILLIAMS—Williams	4	4	4	3	3	3	3	4	3	3	3	3
OTHER FIELDS	12	15	17	19	18	20	12	13	11	10	14	15
ANT HILL	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
ANTELOPE PLAINS	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1	1
ARVIN	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
BLACKWELLS CORNER	3	1	4	2	2	3	2	2	3	2	1	1
BELLEVUE	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
CANFIELD RANCH	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
CHICO MARTINEZ	2	3	.....	.....	.....	3	.....	.....	.....	.....	4	1
DEVILS DEN	3	3	3	3	3	4	.....	2	.....	.....	.....	1
GOSFORD	.....	1	1	2	2	1	.....	.....	.....	.....	.....	.....
GOULD HILLS	1	1	1	1	1	.....	.....	.....	.....	.....	.....	.....
GRAPEVINE	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
JACALITOS ANTICLINE CO	1	1	1	3	3	3	3	3	3	3	3	3
KERN BLUFF	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McCLUNG	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McDONALD ANTICLINE	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
PYRAMID HILLS	1	3	4	4	5	4	3	2	2	2	2	5
QUINN RANCH	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
RACE TRACK HILL	.....	.....	.....	.....	.....	.....	1	1	1	1	2	1
ROSEDALE RANCH	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....
SAN BENITO COUNTY	.....	1	1	1	1	1	1	1	1	1	1	1
SHAFTER	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SHEEP SPRINGS	.....	.....	.....	1	.....	1	1	1	.....	.....	.....	.....
TEJON RANCH	.....	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....
TERRA BELLA	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
UNION AVENUE	.....	.....	1	1	1	.....	.....	.....	.....	.....	.....	.....
SAN JOAQUIN VALLEY TOTAL	517	553	560	596	639	663	581	606	889	1,067	1,172	1,173
COASTAL												
SANTA BARBARA DISTRICT	6	5	8	5	7	11	6	6	8	60	11	7
CAPITAN	3	2	3	1	2	3	1	1	1	54	5	2
Vaqueros	.....	.....	1	.....	.....	1	.....	.....	.....	34	1	.....
Sespe	3	2	2	1	2	2	1	1	1	16	4	2
Coldwater	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
Covarrubias	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....
ELWOOD	2	2	2	2	2	6	4	4	5	4	4	4
Vaqueros	1	1	1	1	1	4	3	3	4	3	3	3
Sespe	1	1	1	1	1	2	1	1	1	1	1	1
SANTA BARBARA—Vaqueros	1	1	2	1	2	1	.....	.....	1	1	1	.....
SUMMERLAND—All Pools	.....	.....	1	1	1	1	1	1	1	1	1	1
SANTA MARIA DISTRICT	29	28	37	48	47	31	29	39	39	39	65	54
BRADLEY CANYON	.....	.....	.....	.....	.....	.....	.....	.....	1	2	2	2
Miocene	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1
Sisquoc	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1	1
CASMALIA—All Pools	1	1	3	18	18	.....	1	.....	1	1	20	20
CAT CANYON	3	4	10	7	6	7	4	6	6	6	5	5
East	1	1	4	4	1	2	1	3	3	3	2	2
West	1	2	5	2	4	5	3	3	3	3	3	3
Las Flores	1	1	1	1	1	.....	.....	.....	.....	.....	.....	.....
GATO RIDGE—Tognazzini	1	4	5	2	2	2	3	2	1	5	5	4
LOMPOC—All Pools	.....	.....	.....	1	1	1	.....	1	1	.....	.....	.....
ORCUTT—All Pools	5	6	6	6	6	6	1	2	4	5	5	5
SANTA MARIA VALLEY	19	12	13	13	13	14	19	27	24	19	27	17
TINAQUAIC	.....	1	.....	1	1	1	1	1	1	1	1	1
ZACA CREEK	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
VENTURA DISTRICT	37	42	44	43	42	43	45	40	60	93	97	98
PADRE CANYON—All Pools	.....	.....	.....	1	1	.....	1	1	1	1	.....	.....
RINCON	8	9	10	13	13	11	12	12	8	11	5	5
Hobson-Tomson-Miley	8	9	10	13	13	11	12	12	8	11	5	5
Deep	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SAN MIGUELITO	1	2	1	4	6	2	2	2	4	3	5	5
Grubb One	1	2	1	4	6	2	2	2	3	3	5	5
Grubb Two	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
VENTURA AVENUE	28	31	25	25	22	30	30	25	39	71	80	81
Shallow	18	18	13	21	19	25	26	21	31	60	67	68
A-3, B-3	2	3	2	3	3	3	3	1	2	10	16	17
B-1, 2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
B-4, B-5	.....	.....	.....	.....	.....	.....	.....	.....	1	9	9	7
C-1, 2 West	1	1	.....	.....	.....	.....	.....	.....	.....	.....	5	4
C-3 West	8	8	9	9	9	10	11	11	12	25	25	27
C-6 West	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1	2
"C" Block	7	6	2	9	7	12	12	9	15	15	11	11
Deep	10	13	12	4	3	5	4	4	8	11	13	13
D-3	1	2	1	1	.....	.....	.....	.....	1	.....	1	1
D-4	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
D-5 West	1	1	1	2	2	3	2	1	1	2	2	2
D-5, 6 East	7	8	9	1	1	1	1	2	5	6	8	8
D-6 West	.....	.....	1	.....	.....	1	1	1	1	2	2	2
D-7	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
VENTURA-OJAI TIPTOP-FRESNO CANYON	.....	.....	8	.....	.....	.....	.....	.....	8	7	7	7
SANTA PAULA-NEWHALL DISTRICT	34	32	40	37	40	71	58	56	60	59	58	62
FILLMORE	5	3	3	4	6	26	24	23	27	24	27	27
BARDSDALE	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....
Elkins Area	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other Areas	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....
SESPE CANYON	.....	1	1	1	4	4	1	.....	4	1	4	5

NUMBER OF SHUT-IN WELLS
CALIFORNIA — 1945

	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
COASTAL—Continued												
SHIELLS CANYON	4	2	2	3	2	22	23	23	23	22	22	22
TOPA-TOPA												
NEWHALL	11	11	12	15	15	18	17	17	16	17	13	17
DEL VALLE				3	3	4	4	4	5	6	3	4
East						1	1	1	2	3	1	2
DL4-DL5										1	1	1
Sherman									1	1		1
Del Valle												
Bering						1	1	1	1	1		
West				3	3	3	3	3	3	3	2	2
Sterry												
Sepulveda												
Vasquez-Videgain				3	3	3	3	3	3	3	2	2
Vasquez-Videgain No. 13												
ELSMERE CANYON												
NEWHALL												
NEWHALL-POTRERO	11	11	12	12	11	13	12	12	10	11	10	12
Others	11	11	12	12	11	13	12	12	10	11	10	12
6th Zone												
OAK CANYON												
Maxwell Weaver (4-A-B)												
Wickham												
Gilmour 3-A-5												
Lechler 5-A-Zone												
9500' Sand 8-A-5												
PICO CANYON												
WILEY-TOWSLEY CANYON												
HALSEY CANYON					1	1	1	1	1			
RAMONA												1
PIRU	11	12	18	11	11	20	9	10	11	13	10	10
HOLSER CANYON										1	1	1
HOPPER CANYON	2	2				1	1	1				
MODELO	6	7	7	6	7	7			2	3	1	1
TAPO-EUREKA	2	2	9	2	2	9	7	8	8	8	8	8
TEMESCAL	1	1	1	1	1	1						
TORREY CANYON			1	2	1	2	1	1	1	1		
SANTA PAULA	7	6	7	5	7	6	6	4	4	3	5	5
EX-MISSION	3	3	3	3	4	3	1		1		1	
SISAR-SILVERTHREAD	3	1	3	1	2	2	2	3	1	1	2	2
SOUTH MOUNTAIN	1	1	1				2		1	1	1	1
SULPHUR MOUNTAIN												
TIMBER CANYON		1		1								1
WEST MOUNTAIN					1	1	1	1	1	1	1	1
SIMI-CONEJO-OXNARD				2	1	1	2	2	2	2	3	3
CONEJO												
OXNARD				2	1	1	2	2	2	2	3	3
SIMI												
OTHER COASTAL COUNITES	3	5	5	6	6	6	3	3	3	3	3	3
SAN LUIS OBISPO	3	4	4	5	5	5	2	2	2	2	2	2
EDNA	3	4	4	4	4	4	1	1	1	1	1	1
HUASNA												
PISMO				1	1	1	1	1	1	1	1	1
Martin												
East Alberta				1	1	1	1	1	1	1	1	1
SAN MATEO—HALF MOON BAY												
SANTA CLARA		1	1	1	1	1	1	1	1	1	1	1
LOS GATOS		1	1	1	1	1	1	1	1	1	1	1
SARGENT												
COASTAL TOTAL	109	112	134	139	142	162	141	144	170	254	234	224
LOS ANGELES BASIN												
ALAMITOS HEIGHTS				1			1	1	2	2	2	3
Bryant												
Others				1			1	1	2	2	2	3
ALISO CANYON	3	4	3	5	4	5	6	5	6	5	7	7
Porter	2	3	2	4	3	4	5	4	5	4	5	5
Sesnon	1	1	1	1	1	1	1	1	1	1	2	2
Sesnon Faulted												
Eocene												
BREA-OLINDA DISTRICT	3	6	6	5	7	12	2	7	9	38	38	40
BREA	1	2						1	1	29	29	29
OLINDA	2	4	6	5	7	11	2	6	8	8	6	8
TONNER						1				1	3	3
COYOTE EAST	1	6	6	5	5	5	3	5	4	5	4	4
Graham-Loftus-Hualde	1	4	4	3	3	3	1	3	2	3	3	3
Mathis		2	2	2	2	2	2	2	2	2	1	1
Stern												
COYOTE WEST	4	10	7	11	8	8	8	8	12	12	13	10
Murphy		1	1						1	2	1	
Ninety-nine												
Ninety-nine Lower												1
Emery	4	9	6	11	8	8	8	8	11	10	12	9
East	1	5	3	6	5	5	5	5	7	6	8	5
West	3	4	3	5	3	3	3	3	4	4	4	4
McNally												
DOMINGUEZ	2	1	2	1	3	4	3	5	4	4	5	6
Pliocene	1		1		2	2	2	3	2	2	3	4
5th West Block												
Others	1		1		2	2	2	3	2	2	3	4
Miocene	1	1	1	1	1	2	1	2	2	2	2	2
7th Central Block												
8th Central Block									1			
South Central Block												
South-West Block												
West Block										1	1	1
West Town Lot Block	1	1	1	1	1	2	1	2	1	1	1	1
EL SEGUNDO			1	1	1	2	1	2	1	1	1	1
West Area												
Others			1	1	1	2	1	2	1	1	1	1
HUNTINGTON BEACH NEW	11	16	15	18	16	20	15	20	24	24	26	27
On-Shore	11	16	15	17	14	17	12	18	21	21	22	25
Tar Zone	6	10	8	9	8	11	7	10	13	13	14	14
Main Area	4	5	6	7	5	5	5	8	8	8	8	11
A-37 Area	1	1	1	1	1	1						
A-66												
Off-Shore				1	2	3	3	2	3	3	4	2
Main				1	2	3	3	2	2	2	3	1
Jones									1	1	1	1
HUNTINGTON BEACH OLD	18	21	24	16	21	19	14	13	16	15	12	14
Bolsa Area	2	2	3	2								
Tar Bolsa												

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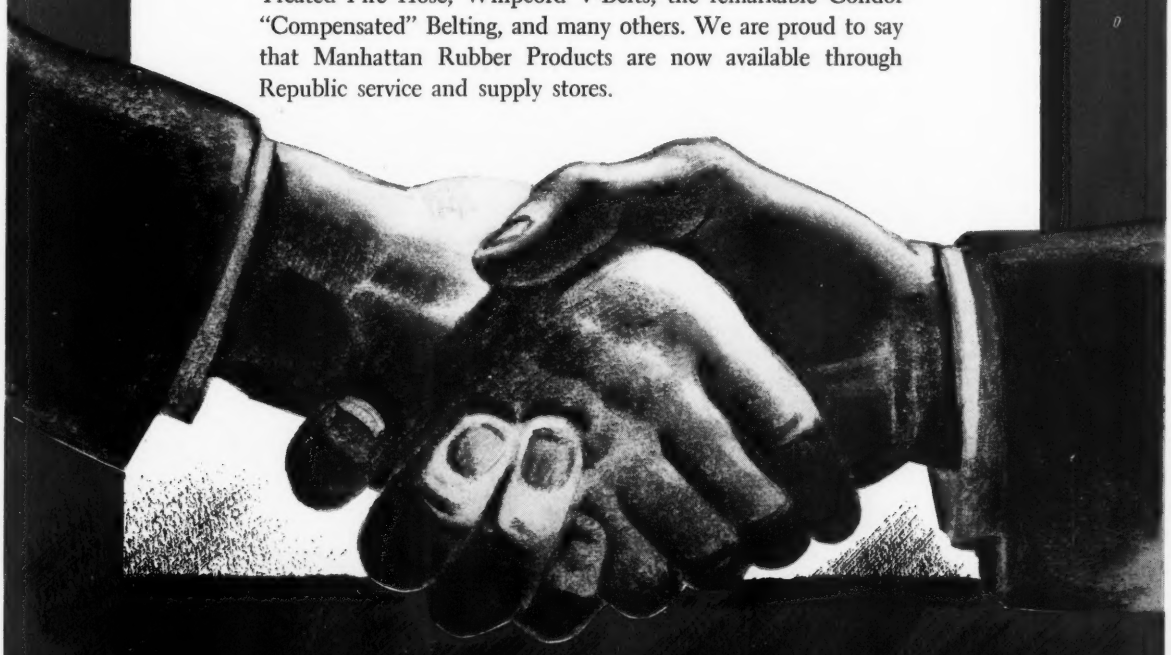
REPUBLIC SUPPLY COMPANY

of California

as Distributor of Oil Field Rubber Products in California and of Industrial Rubber Products in Southern California

Manhattan Rubber has pioneered and developed many of the most notable advances in mechanical rubber goods—the new Flexlastics, which contribute so greatly to the flexibility, elasticity and long service life; Paranite Gas- and Oilproof Rubber products; Homo-Flex Rubber Hose; Homocord Conveyor Belt, Radio-Active Treated Fire Hose; Whipcord V-Belts; the remarkable Condor "Compensated" Belting, and many others. We are proud to say that Manhattan Rubber Products are now available through Republic service and supply stores.



The REPUBLIC SUPPLY COMPANY of California

LOS ANGELES 54, CALIFORNIA

NUMBER OF SHUT-IN WELLS
CALIFORNIA — 1945

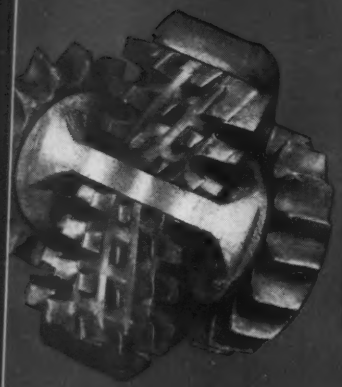
	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
LOS ANGELES BASIN—Continued												
Ashton	2	2	3	2	.....	.....	.....	.....	.....	.....	.....	.....
Upper	2	2	3	2	.....	.....	.....	.....	.....	.....	.....	.....
Lower	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other Areas	16	19	21	14	21	19	14	13	16	15	12	14
Tar Bolsa	.....	.....	.....	.....	.....	1	1	2	1	1	1	2
Ashton	16	19	21	14	21	18	13	11	15	14	11	12
INGLEWOOD	5	3	2	3	4	4	3	5	5	5	5	5
Vickers-Machado	3	.....	.....	.....	.....	.....	.....	2	1	1	1	1
Rindge	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rubel	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Moynier	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sentous	2	3	2	3	4	4	3	3	4	4	4	4
LONG BEACH	32	41	45	44	39	48	30	33	35	37	39	36
Old Area	31	40	44	43	38	47	30	33	35	37	39	36
Upper	31	40	44	43	38	47	30	33	35	37	39	36
De Soto	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Northwest Extension Area	1	1	1	1	1	1	.....	.....	.....	.....	.....	.....
MONTEBELLO	10	10	9	11	9	8	8	10	12	13	14	18
Main Area—Baldwin One-Two-Three	1	2	3	2	.....	.....	1	2	2	2	3	3
East Area	1	1	1	1	1	1	.....	.....	.....	.....	.....	2
Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nutt	1	1	1	1	1	1	.....	.....	.....	.....	.....	2
West Area	8	7	5	8	8	7	7	8	10	11	11	13
Fifth Zone	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1	2
Sixth Zone	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Masser Zone	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....
Seventh Zone	.....	.....	.....	.....	.....	.....	.....	.....	2	1	1	1
Eighth Zone	8	7	5	8	8	7	6	7	9	8	9	10
Ninth Zone	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
PLAYA DEL REY	1	2	2	1	2	3	3	2	3	5	8	7
Del Rey Hills Area	.....	1	1	.....	1	1	2	2	3	4	6	6
Venice Area	1	1	1	1	1	2	1	.....	.....	1	2	1
POTRERO	1	1	1	1	1	1	.....	.....	.....	.....	.....	.....
Central Area	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
East Area	1	1	1	1	1	1	.....	.....	.....	.....	.....	.....
Potrero No. 2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	1	1	1	1	1	1	.....	.....	.....	.....	.....	.....
West Area	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
RICHFIELD	4	6	3	2	5	4	3	4	5	8	8	7
East Area	4	6	2	2	5	4	3	3	4	6	6	6
West Area	.....	.....	1	.....	.....	.....	.....	1	1	2	2	1
ROSECRANS-ATHENS	6	7	6	8	13	9	4	4	7	9	10	13
Rosecrans Area	5	6	5	6	10	8	4	4	7	9	9	10
Maxwell-Hoge	1	1	2	2	2	2	2	2	2	2	2	2
Zinns	2	2	2	2	3	3	1	1	1	1	1	1
Miocene	2	3	1	2	5	3	1	1	4	6	6	7
Banks Block	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seventh	2	3	1	2	5	3	1	1	4	6	6	7
Eighth	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Athens Area	1	1	1	2	3	1	.....	.....	.....	.....	1	3
Upper	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	1
Lower	1	1	1	2	2	1	.....	.....	.....	.....	.....	1
Miocene	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
SANTA FE SPRINGS	8	8	9	12	13	13	4	5	12	15	14	14
SEAL BEACH	1	1	3	3	1	1	2	2	4	3	3	4
Bixby Selover—South Block	.....	.....	.....	.....	.....	.....	1	1	1	1	1	1
North Block—Selover	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
South Block	.....	1	3	3	1	1	1	1	3	2	2	3
Wasem	.....	.....	1	1	1	1	1	1	2	1	1	2
McGrath	.....	1	2	2	.....	.....	.....	.....	1	1	1	1
North Block	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wasem—East	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McGrath—East	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Selover—West	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McGrath—West	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
San Gabriel—West	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
TORRANCE-HERMOSA	38	38	47	50	46	50	33	38	48	46	46	48
Hermosa Area	1	1	1	1	1	1	.....	.....	.....	.....	.....	.....
Torrance Area	35	34	44	46	43	47	32	37	47	45	44	45
Main	17	19	20	21	20	23	16	18	23	20	21	21
Thirty-four	16	12	15	18	17	16	8	11	16	17	17	15
D. & B.	2	2	6	4	3	6	5	3	3	3	4	6
Vesta	.....	1	3	3	3	2	3	5	5	5	2	3
Torrance Extension Area	2	3	2	3	2	2	1	1	1	1	2	3
WHITTIER	2	4	3	3	3	3	1	1	5	8	7	6
Central Area	1	2	1	1	1	1	.....	.....	3	4	3	4
La Habra Area	1	1	1	1	1	1	.....	.....	.....	.....	.....	1
Rideout Heights Area	.....	1	1	1	1	1	1	1	2	4	4	1
WILMINGTON	30	31	32	33	29	27	32	28	23	25	22	26
Fault Block I (Terminal Area)	3	4	2	2	1	.....	1	1	.....	.....	1	1
Ranger-Terminal	3	4	2	2	1	.....	1	1	.....	.....	1	1
Ford	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fault Block II (Terminal Area)	8	9	9	8	6	4	4	4	5	5	4	4
Tar-Ranger	3	3	3	2	1	1	.....	.....	1	1	1	1
Terminal	5	6	6	6	5	3	4	4	4	4	3	3
Ford	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
U. P.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fault Block III (Terminal Area)	2	3	3	3	3	3	3	3	2	2	2	2
Tar-Ranger	1	1	1	2	2	2	2	2	1	1	1	1
Terminal	1	2	2	1	1	1	1	1	1	1	1	1
Upper	1	1	1	1	1	1	1	1	1	1	1	1
Lower	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
U. P.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fault Block IV (Harbor Area)	5	5	5	6	4	5	13	8	4	4	4	5
Ford	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
Tar	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Terminal	5	5	5	6	4	5	12	8	4	4	4	5
Fault Block V (Harbor Area)—Terminal	1	1	1	1	1	1	2	.....	.....	.....	.....	.....
Fault Block IV & V (Harbor Area)—Ranger	5	3	5	5	5	6	2	4	2	3	3	4
Town Lot Area	6	6	7	8	9	8	7	8	10	11	8	10
Tar, Ranger & Terminal	6	6	7	8	8	7	6	7	8	9	7	9
Ford	.....	.....	.....	.....	1	1	1	1	2	2	1	1
OTHER FIELDS	14	11	12	14	17	12	18	20	38	56	56	45
BUENA PARK	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
East	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
West	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
CHINO	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KRAEMER	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
LAWNDALE	.....	2	2	1	1	.....	1	2	1	1	1	1
LOS ANGELES DISTRICT	.....	.....	.....	.....	.....	.....	1	1	1	1	1	1

NUMBER OF SHUT-IN WELLS
CALIFORNIA — 1945

	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
LOS ANGELES BASIN—Continued												
BEVERLY HILLS	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
LOS ANGELES	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SALT LAKE	.....	.....	.....	.....	.....	.....	1	1	1	1	1	1
NEWPORT BEACH	.....	.....	.....	.....	.....	.....	1	1	1	2	2	2
PUENTE HILLS	9	3	4	5	8	7	7	9	29	31	31	31
TURNBULL	1	1	1	1	1	.....	.....	.....	.....	.....	.....	.....
WESTERN AVENUE	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
YORBA LINDA	4	5	5	7	7	5	8	7	6	21	21	10
Shell	.....	.....	.....	.....	.....	.....	.....	1	2	13	13	2
Smith	4	5	5	7	7	5	8	6	4	8	8	8
SANSINENA	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
LOS ANGELES BASIN TOTAL	194	227	238	248	247	258	194	218	275	336	340	341
STATE TOTAL	820	892	932	983	1,028	1,083	916	968	1,334	1,657	1,746	1,738

MOTOR FUEL SALES IN CALIFORNIA 1945
NET TAXABLE GALLONS

	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT	OCT.	NOV.	DEC.
Allied Chemical & Dye Corp.	15,360	15,998	.....	7,815	10,400	8,305	19,657	.....	.....	.....	.....	.....
Andrews & Davies (Comet Oil)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bell Oil & Refining	88,280	174,978	77,411	117,116	289,843	280,472	275,137	193,647	92,792	95,193	227,833	435,063
Belridge Oil Co.	268,044	214,074	352,569	198,091	127,126	113,825	17,111	17,242	42,569	95,108	95,655	161,677
Brown, Henry	1,012,285	970,079	959,446	853,059	784,571	921,922	1,031,525	867,149	762,842	604,126	728,697	521,218
Calstate Refining Corp.	438,092	327,624	371,046	320,746	346,150	409,467	464,853	452,253	528,974	290,889	462,653	532,048
Caminol Co., Ltd., The	2,094,192	1,892,524	2,205,792	2,327,737	2,173,429	2,373,938	2,115,244	2,607,880	2,484,995	1,954,024	1,919,000	1,964,840
Century Oil Co.	776,160	862,911	945,949	905,391	915,630	807,492	974,912	814,439	784,483	658,726	533,681	710,311
Coline Gasoline Corp.	546	574	306	306	312	543	273	.....	.....	.....	.....	.....
Cowan Oil & Ref.	42,190	36,101	44,755	30,740	31,305	26,115	17,350	23,535	13,910	31,260	27,605	49,291
Del Valle Gasoline Co.	63,126	31,548	35,265	37,771	.....	11,443	59,515	70,166	106,921	170,664	204,704	277,875
Douglas Oil & Ref. Co.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Eagle Oil & Ref. Co.	1,930,334	1,595,377	1,848,883	1,407,558	1,763,378	2,117,208	1,534,535	1,653,910	1,026,333	1,202,609	1,056,319	1,393,465
Edgington, Ralph	48,443	.....	11,572	42,652	86,300	119,822	24,940	89,118	37,631	97,379	62,708	8,298
El Camino Ref. Co.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
El Tejon Oil & Ref. Co.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Envoy Petroleum Co.	29,009	87,424	113,904	88,627	.....	.....	.....	.....	.....	.....	.....	.....
Exeter Refining Co.	110,354	.....	82,909	633	82,214	75,725	144,122	66,920	.....	.....	13,551	874
Field Gas Corp., O. C.	.....	84,210	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Five C. Refining Co.	336,777	247,508	515,416	312,241	277,391	313,281	359,714	291,717	806,550	228,670	231,400	283,611
Fletcher Oil Co., Inc.	1,314,033	1,327,935	1,578,175	1,450,143	1,386,487	1,785,174	1,737,457	1,899,116	1,750,041	1,353,006	1,418,566	1,384,257
General Petroleum Corp.	10,704,297	9,287,648	15,258,649	17,180,862	19,560,181	18,441,833	18,776,686	21,264,475	22,276,392	21,382,787	21,692,662	22,519,668
Gilmore Oil Co.	5,810,266	5,225,688	1,926,146	.....	2,489	.....	.....	.....	.....	.....	.....	.....
Hancock Oil Co. of Calif.	3,045,187	2,773,106	2,947,021	2,496,143	2,487,122	2,586,586	2,648,606	2,924,725	2,858,432	2,441,626	2,365,665	2,290,744
Klamath Basin Cooperative	11,960	8,715	20,217	39,441	32,003	29,627	24,287	30,945	38,750	32,268	10,535	7,493
Krieger Oil Co.	909,009	593,435	516,710	766,251	792,366	899,371	1,182,245	1,231,996	3,133,253	2,632,920	2,773,166	2,828,771
Lomita Gasoline Co.	.....	222,814	96,443	1,047	2,423	3,070	1,038	.....	.....	.....	.....	.....
Los Nietos Prod. & Ref.	.....	6,392	.....	6,340	.....	.....	.....	.....	.....	.....	.....	19,414
Macmillan Petroleum Corp.	882,090	584,372	819,234	720,742	825,599	697,793	864,360	1,081,024	1,537,276	1,426,769	1,344,789	1,411,006
Magruder, P. S., Operator	158,155	136,782	156,684	112,611	178,937	163,545	55,604	67,499	67,494	113,291	544,816	482,174
Mangold & Tweedy	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
McCallen Refining Co.	1,472	1,035	1,350	1,304	1,264	1,408	399,750	799,094	4,351	5,004	1,584	1,704
Moffett, J. O.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mohawk Petroleum Corp.	2,163,072	1,733,751	2,169,610	2,464,693	2,667,267	2,996,822	3,088,807	3,200,225	2,702,130	1,997,785	2,029,783	2,250,253
Newhall Refining Co.	361,498	312,428	384,044	376,367	392,173	396,375	367,046	429,187	449,436	379,929	495,721	384,844
Norwalk Co., The	1,580,296	1,268,687	1,560,186	1,543,708	1,623,013	1,594,750	1,680,288	1,740,538	1,727,436	1,708,884	1,421,125	1,430,902
Pacific Central Ref.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pacific States Oil Co.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pathfinder Petroleum Co.	423,321	836,258	791,386	600,565	706,009	646,470	667,676	640,045	35,145	176,951	517,498	605,698
Petrol Corp., The	590,751	438,734	514,466	493,796	651,039	502,970	514,712	646,387	1,826,595	1,784,118	1,919,267	2,124,430
Petrolane, Ltd.	9	674	574	401	2,702	772	1,624	3,564	3,399	4,045	1,662	20,962
Richfield Oil Corp.	10,729,593	9,460,016	11,210,989	10,313,920	10,344,648	10,875,111	11,406,542	13,521,691	14,777,316	13,310,341	13,571,005	14,128,037
Rothschild Oil Co.	2,074,669	1,935,992	2,241,758	2,823,364	2,335,061	2,301,929	2,214,387	2,727,930	1,929,227	1,516,631	1,665,171	1,621,029
Seaside Oil Co.	2,633,715	2,286,942	2,719,616	2,836,360	2,954,710	2,761,043	2,804,176	3,298,672	3,634,200	3,613,692	3,521,053	3,400,349
Shell Chemical Co.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Shell Oil Co., Inc.	17,591,781	15,190,102	17,568,032	16,421,855	16,660,026	18,033,491	18,794,160	21,660,302	23,082,314	22,346,098	21,863,360	23,030,034
Signal Oil & Gas Co.	189,406	126,120	167,335	114,547	95,867	62,904	60,733	68,897	80,547	139,300	176,573	284,762
Socal Oil & Ref. Co.	796,276	724,735	822,685	816,778	834,993	874,353	1,038,463	939,877	652,222	583,290	678,356	545,297
Standard Oil Co. of Calif.	30,091,299	29,674,201	31,245,240	35,026,636	34,410,373	34,653,741	37,334,767	38,426,896	48,159,852	46,219,695	44,894,435	49,714,371
Steiner, Fred	362,091	337,122	314,957	176,562	374,332	520,805	467,716	457,191	413,885	395,837	292,705	154,733
Sunland Refining Co.	160,803	135,302	133,451	98,647	179,696	101,155	218,575	169,138	170,452	352,265	303,568	292,362
Sunset Oil Co.	.....	.....	.....	400,639	1,849,779	1,962,858	2,190,889	2,553,800	2,424,768	1,955,802	2,218,564	2,293,457
Superior Oil Co.	863,298	721,270	895,873	918,347	580,535	678,688	1,039,362	1,044,232	736,827	562,788	538,950	649,256
Texas Co., The	8,103,225	7,329,402	8,538,003	8,786,025	9,093,311	10,132,543	9,827,175	12,555,816	12,350,029	12,770,827	12,387,606	14,432,892
Tide Water Associated Oil	12,438,452	10,927,473	12,225,145	12,473,351	11,060,585	11,443,501	12,480,826	14,476,446	15,093,456	14,560,543	14,450,425	14,325,412
Triangle Oil & Ref. Co.	251,454	336,178	87,952	188,270	151,750	231,964	640,513	408,146	39,125	38,271	27,163	22,425
Union Oil Co. of Calif.	15,534,717	14,238,633	16,272,253	16,804,636	17,139,227	17,628,102	17,551,467	21,100,523	23,587,199	21,949,125	21,589,491	21,661,374
Ventura Land & Water Co.	129,387	110,961	123,540	83,794	98,159	93,172	.....	.....	.....	.....	.....	.....
Western States Gas Corp.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wilmington Gas Co.	.....	.....	.....	.....	54,099	37,878	49,405	4,071	.....	123,424	166,491	350,749
Wilshire Oil Co., Inc.	6,163,553	5,324,291	6,132,462	6,005,050	6,114,586	6,071,500	6,673,105	7,082,055	5,846,277	5,259,629	5,058,821	5,004,252
Others	73,657	66,040	68,456	86,393	96,682	158,002	141,290	165,784	129,126	185,677	357,490	570,028
TOTAL	143,395,984	130,224,164	147,073,865	149,280,121	152,627,542	156,948,864	163,982,625	183,765,268	198,204,952	186,751,266	185,861,872	196,581,709



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H C Smith Oil Tool Co.

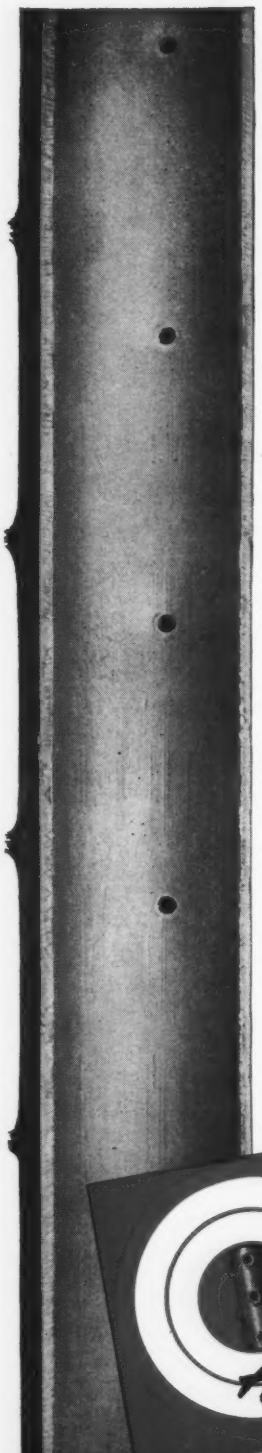
GENERAL OFFICES AND PLANT: P. O. BOX 431, COMPTON, CALIF.

CALIFORNIA FIELD & POOL
CRUDE OIL PRODUCTION
TOTAL BARRELS

Prepared by the Conservation Committee of California Oil Operators

	Cumulative To Jan. 1, 1945	1945	Cumulative To Jan. 1, 1946
SAN JOAQUIN VALLEY			
BELRIDGE NORTH	50,145,820	2,325,697	52,471,517
Shallow	4,703,872	29,900	4,733,773
Temblor	17,200,754	267,711	17,468,465
"R-Sand"	142,615	4,075	146,690*
Wagon Wheel	27,666,181	1,573,113	29,239,294*
"Y-Sand"	432,398	450,898	883,296*
BELRIDGE SOUTH	30,393,630	4,614,446	35,008,076
South Belridge Area Shallow	30,366,896	4,609,937	34,976,833
Middle Belridge Area Shallow	26,734	4,509	31,243
BUENA VISTA	299,610,059	15,774,105	315,384,164
Buena Vista Front	.....	1,481,579	.....
Buena Vista Hills	.....	14,292,526	.....
27-B	1,769,733	10,861,492	12,631,225*
Others	.....	3,431,034	.....
CANAL—Stevens	10,399,848	1,241,206	11,641,054
COALINGA WEST	319,844,218	30,079,975	349,924,193
Main Area	241,710,317	7,563,940	249,274,257
Temblor	239,446,799	7,526,598	246,973,397
Cretaceous	2,263,518	37,342	2,300,860
Coalinga Nose Area Eocene	60,952,928	17,802,873	78,755,801*
Coalinga Northeast Area Eocene	16,003,584	3,407,679	19,411,263*
Pleasant Valley Area Eocene	1,177,389	1,305,483	2,482,872*
COALINGA WEST Main Area	153,043,225†	2,863,444	155,906,669
COFFEE CANYON	11,483,020	470,625	11,953,645
COLES LEVEE NORTH	19,561,331	6,099,706	25,661,037
Northwest Area	165,764	26,392	192,156*
Richfield Western Area	19,395,567	6,073,314	25,468,881
21-1	1,763,302	663,779	2,427,081*
Western 29	1,843,219	245,972	2,089,191*
Main Western	15,789,046	5,163,563	20,952,609*
COLES LEVEE SOUTH—Stevens (Black Oil)	4,608,104†	897,430	5,505,534
EDISON	11,254,701	2,167,920	13,422,621
Main Area	11,252,454	2,151,985	13,404,439
First Duff	6,621,576	590,730	7,212,306
Second Duff	4,630,878	871,416	5,502,294
Fractured Schist	.....	689,839*	689,839*
Fairfax Area Wicker	2,247	15,935	18,182
ELK HILLS	175,195,688	15,767,154	190,962,842
Main Area	175,194,491	15,766,728	190,961,219
Upper	175,053,381	15,742,675	190,796,056
Lower	141,110	24,053	165,163*
Northwest Area Olig	1,197	426	1,623
FRESNO AREA	4,733,810	4,122,050	8,845,860
BURREL—Miocene	12,141	12,135	24,276
HELM	765,030	1,202,430	1,952,460
Temblor	152,747	153,483	306,230
Upper	67,387	153,044	220,431
Lower	85,360	439	85,799
Eocene	597,283	1,048,947	1,646,230
LANARE	67,989	199,398	267,387
Miocene	46,275	130,647	176,922*
Eocene	21,714	68,751	90,465*
PANOCHE CREEK	5,218	.....	5,218
RAISIN CITY	1,676,143	1,156,099	2,832,242
Miocene	1,159,032	724,032	1,883,064*
Eocene	517,111	432,067	949,178*
RIVERDALE	2,222,289	1,541,988	3,764,277
Miocene	1,375,873	750,682	2,126,555*
Eocene	846,416	791,306	1,637,722*
FRUITVALE—Martin-Kernco	32,190,729	3,061,800	35,252,529
GREELEY	19,028,561	5,060,543	24,089,104
Greeley	3,652,763	293,654	3,946,417
11-2	15,375,798	4,766,889	20,142,687*
KERN FRONT—All Pools	55,828,714	3,150,510	58,979,224
KERN RIVER—All Pools	286,927,354	3,536,176	290,463,530
KETTLEMAN NORTH DOME	295,640,550	14,351,229	309,991,779
Temblor	285,137,612	10,999,407	296,137,019
Vaqueros	3,644,816	2,396,004	6,040,820*
Eocene	6,858,122	955,818	7,813,940
LOST HILLS	55,287,711	1,223,109	56,510,820
Main Area	53,305,193	1,124,119	54,429,312
Williamson Area	1,982,518	98,990	2,081,508
McKITTRICK DISTRICT	97,658,047	2,058,670	99,716,717
CYMRIC—Shallow	.....	372,939	.....
54-21	.....	900	900
Anderson 45	.....	141,614	141,614
Brunt	.....	44,438	44,438
McKITTRICK	.....	1,150,127	.....
McKITTRICK FRONT	.....	343,161	.....
Upper	.....	118,924	.....
Lower	.....	224,237	.....
TEMBLOR RANCH	.....	5,491	.....
MIDWAY-MARICOPA DISTRICT	675,441,258	14,440,529	689,881,787
Lake View Area	25,638,272	997,570	26,635,842
Gibson Area	1,786,584	101,247	1,887,831
Maricopa	.....	276,286	.....
Midway East Area	.....	3,586,302	.....
Midway West Area	.....	8,202,120	.....
Quality Area	8,125,556	659,258	8,784,814
Republic Area	.....	282,588	.....
Section 6 Area	348,647	208,941	557,588
Santiago Area	.....	126,217	126,217*
MOUNT POSO DISTRICT	78,131,476	6,672,846	84,804,322
BAKER	2,151,023	129,052	2,280,075
DOMINION	2,032,620	141,105	2,173,725
DORSEY	979,398	164,683	1,144,081
MOUNT POSO—Main Area	67,667,408	5,667,022	73,334,430
NORTH MOUNT POSO	5,142,488	482,414	5,624,902
SUNSET	58,558	23,121	81,679
VEDDER	64,732	65,449	130,181*
WEST MOUNT POSO	7,493	.....	7,493
DYER CREEK	27,756	.....	27,756
MOUNTAIN VIEW	44,689,316	1,021,248	45,710,564
Northwest Area	12,487,230	232,157	12,719,387
Southeast Area	29,570,595	717,519	30,288,114
Earl Fruit Area	944,203	21,999	966,202
Arvin Area	1,687,288	49,573	1,736,861

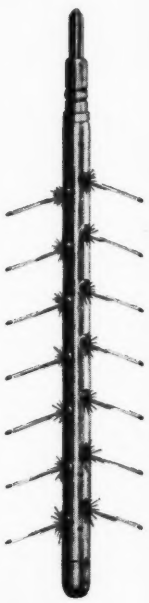
	Cumulative To Jan. 1, 1945	1945	Cumulative To Jan. 1, 1946
SAN JOAQUIN VALLEY			
PALOMA	129,880†	874,828	1,004,708*
PALOMA POOL—Black Oil	129,880*	874,828	1,004,706*
POSO CREEK DISTRICT	7,675,157	1,499,778	9,174,935
McVAN	293,259	29,203	322,462
PREMIER	7,345,968	1,382,597	8,728,565
EAST PREMIER	35,930	87,978	123,908
RIO BRAVO—Rio Bravo—Vedder	27,681,909	5,758,395	33,440,304
ROUND MOUNTAIN DISTRICT	31,165,304	3,019,765	34,185,069
Main Area	24,709,285	1,957,028	26,666,313
Jewett	4,671,706	284,708	4,956,414
Vedder	20,037,579	1,672,320	21,709,899
North Sharkstooth Vedder	.....	206,094	206,094
Northwest Area Vedder	4,325,765	414,026	4,739,791
Pyramid Area Vedder	1,957,502	359,019	2,316,521
West Area Vedder	172,752	83,598	256,350
STRAND—Stevens	2,848,664	577,107	3,425,771
Upper	1,685,279	221,820	1,907,099*
Lower	1,163,385	355,287	1,518,672*
STRAND EAST—Stevens	278,575	261,444	540,019
TEN SECTION—Stevens	31,578,442	4,094,759	35,673,201*
WASCO	3,771,776	500,816	4,272,592
Shale	4,907	123	5,030
Vedder	3,766,869	500,693	4,267,562*
WHEELER RIDGE—All Pools	4,204,898	85,183	4,290,081
WILLIAMS—Williams	1,527,023	675,559	2,202,582
East Block	219,923	266,755	486,678*
West Block	1,307,100	408,804	1,715,904*
OTHER FIELDS	2,400,250	2,547,756	4,948,006
ANTELOPE PLAINS	5,606	6,135	11,741
ANT HILL	17,018	217,097	234,115
Olcese	14,570	86,919	101,489
Jewett	2,448	130,178	132,626
ARVIN	118,369	12,102	130,471
BELLEVUE—Stevens	158,036	196,136	354,172*
BLACKWELLS CORNER	40,607	57,285	97,892
CANFIELD RANCH	141,519	11,913	153,432
CHICO MARTINEZ	28,642	2,851	31,493
DEVIL'S DEN	18,034	1,377	19,411
GOSFORD—Stevens	11,676	41,719	53,395*
GOULD HILLS	419	.....	419
JACALITOS ANTICLINE—Temblor	640,291†	1,174,845	1,815,136
Upper	606,476	480,116	1,086,592*
Lower	33,815	694,729	728,544*
KERN BLUFF	1,430	.....	1,430
KETTLEMAN SOUTH DOME	534,111	.....	534,111
McCLUNG	66,253	23,949	90,202
McDONALD ANTICLINE	.....	4,286	4,286
MISCELLANEOUS	12,790	.....	12,790
PYRAMID HILLS	135,789	140,785	276,574
QUINN RANCH	200	.....	200
RACE TRACK HILL—Jewett	6,944	209,062	216,006*
ROSEDALE RANCH	.....	27,402	27,402
SHAFTER	54,571	76	54,647
SHEEP SPRINGS—Carneros	35,250	220,710	255,960*
TEJON RANCH	156,408	158,265	314,673
Metzenbaum	3,802	65,604	69,406
Reserve (Grapevine)	152,606	5,642	158,248
Richfield	.....	87,019	87,019
TERRA BELLA	19,613	.....	19,613
TURK ANTICLINE	2,445	.....	2,445
UNION AVENUE	194,229	41,411	235,640
VALLECITOS—Cretaceous	.....	350	350
SAN JOAQUIN VALLEY TOTAL	2,844,359,048	160,885,808	3,005,244,856
COASTAL			
SANTA BARBARA DISTRICT	88,515,184	2,999,521	91,514,705
CAPITAN	8,749,124	791,937	9,541,061
Vaqueros	6,745,675	612,598	7,358,273
Erburu	2,003,449	36,775	2,040,224
Covarrubias	.....	126,222	126,222*
Coldwater	.....	16,342	16,342*
ELWOOD	73,110,633	2,174,006	75,284,639
Vaqueros—East	54,258,105	593,757	54,851,862
West	16,280,559	1,548,983	17,829,542
Sespe	2,571,969	31,266	2,603,235
SANTA BARBARA—Vaqueros	3,486,404	33,473	3,519,877
SUMMERLAND—All Pools	3,169,023	105	3,169,128
SANTA MARIA DISTRICT	212,161,024	20,090,531	232,251,555
BRADLEY CANYON	4,966	20,917	25,883
Miocene	2,759	14,052	16,811
Sisquoc	2,207	6,865	9,072
CARREAGA	627	.....	627
CASMALIA—All Pools	14,990,483	132,660	15,123,143
CAT CANYON	24,643,612	2,962,715	27,606,327
East	3,829,273	299,610	4,128,883
West	16,925,016	498,164	17,423,180
Los Flores	3,889,323	2,164,941	6,054,264
GATO RIDGE—Tognazzini	9,865,212	1,609,818	11,475,030
LOMPOC—All Pools	11,852,578	551,065	12,403,643
ORCUTT—All Pools	101,557,362	1,330,913	102,888,275
SANTA MARIA VALLEY—All Areas	49,246,184	13,418,283	62,664,467
ZACA CREEK	.....	64,160	64,160
VENTURA DISTRICT	317,020,799	22,067,315	339,088,114
PADRE CANYON—All Pools	2,935,069	772,987	3,708,056
RINCON	17,804,604	1,682,625	19,487,229
Hobson-Tomson-Miley	.....	1,642,633	.....
Deep	.....	39,992	.....
SAN MIGUELITO	10,769,351	1,917,060	12,686,411
Grubb One	10,532,793	1,497,174	12,029,967
Grubb Two	236,558	419,886	656,444*
VENTURA AVENUE	285,511,775	17,694,643	303,206,418
Shallow Pool	233,643,492	8,043,223	241,686,715
A-3, B-3	20,762,166	650,415	21,412,581*
B-1, 2	334,975	53,284	388,259*
B-4, 5 West	3,271,925	766,910	4,038,835*
"C" Block	198,896,906	5,439,133	204,336,039*
C-1 2 West	1,649,012	149,683	1,798,695*



This Casing Gun-Perforated by McCullough

NOTE THE EXACT SPACING

If you could go down the hole after a McCullough gun-perforating job and see the results with your own eyes, you'd find every hole punched through the casing in the exact location specified. And you'd see that the perforations in the casing were spaced exactly as the bullets were spaced in the gun itself *because all the shots were fired at the same instant!*



AND NOTICE—NO BURRS INSIDE THE CASING

McCullough's NEW stream-lined Bullet—the BURRLESS Armor-Piercing Bullet—makes clean holes through the heaviest casing, and drives far out into the formation. No more casing-scraping, no more damage to swabs or packers.

McCullough

PUTS ALL THE SHOTS WHERE THEY COUNT!

22 SERVICE LOCATIONS

McCULLOUGH TOOL COMPANY . . . 5820 S. Alameda St., Los Angeles 11, California
Export Office: 30 Rockefeller Plaza, New York 20, N. Y.

TEXAS: ALICE, CORPUS CHRISTI, HOUSTON, McALLEN, ODESSA, TYLER, VICTORIA, WICHITA FALLS
OKLAHOMA: GUTHRIE, OKLAHOMA CITY, **MISSISSIPPI:** LAUREL, **NEW MEXICO:** HOBBS
CALIFORNIA: AVENAL, BAKERSFIELD, LOS ANGELES, SACRAMENTO, VENTURA, **WYOMING:** CASPER
LOUISIANA: HOUMA, LAKE CHARLES, NEW IBERIA, SHREVEPORT

CALIFORNIA FIELD & POOL
CRUDE OIL PRODUCTION
TOTAL BARRELS

	Cumulative To Jan. 1, 1945	1945	umulative To Jan. 1, 1945
COASTAL—Continued			
C-3 West	8,468,167	907,789	9,375,956*
C-6 West	260,341	76,009	336,350*
Deep Pool	51,868,283	9,651,420	61,519,703
D-3	2,642,853	524,939	3,167,792*
D-4	844,933	57,909	902,842*
D-5 6 East	25,352,831	3,185,321	28,538,152*
D-5 West	17,824,076	1,906,127	19,730,203*
D-6 West	2,900,086	1,125,217	4,025,303*
D-7	2,303,504	2,851,907	5,155,411*
SANTA PAULA-NEWHALL DISTRICT	75,898,718	7,379,198	83,277,916
FILLMORE GROUP	18,540,961	849,010	19,389,971
BARDSDALE	3,606,905	160,521	3,767,426
Elkins Area	14,759	475	15,234
Other Areas	3,592,146	160,046	3,752,192
SESPE CANYON	3,191,616A	58,553	3,255,370 A
SHIELLS CANYON	11,742,440	624,735	12,367,175
TOPA-TOPA—A		5,201	
SANTA PAULA-NEWHALL DIST.—Cont'd			
NEWHALL GROUP	17,930,309	4,803,296	22,733,605
DEL VALLE	3,639,596	2,044,020	5,683,616
East Area—Sherman	1,326,534	246,326	1,572,860*
Del Valle	406,191	254,908	661,099*
DL4-DL5	4,896	24,411	29,307*
Bering	201,503	94,391	295,894*
West Area—Sepulveda	231,681	119,408	351,089*
Vasquez 13		111,516	111,516*
Vasquez-Videgain	1,456,594	1,077,267	2,533,861
Sterry	12,197	17,350	29,547
Ramona		98,443	98,443*
ELSMERE CANYON—B		2,060	2,060
HASLEY CANYON	5,910,601B	23,267	5,936,489 B
NEWHALL	7,473,531	1,994,635	9,468,166*
NEWHALL-POTRERO	7,473,531	1,875,755	9,349,286*
123		118,880	118,880*
6th	906,581	736,693	1,643,274
OAK CANYON	54,258	12,021	66,279
1-A	97,726	286,907	384,633
3-AB	400	86,280	86,680
4-AB	754,197	334,833	1,089,030
5-A		16,652	16,652*
8-AB			
PICO CANYON—B		2,621	
WILEY-TOWSLEY CANYON—B	9,324,012	395,390	9,719,402
PIRU GROUP	26,208	5,536	31,744
HOLSER CANYON		46,308	
HOPPER CANYON—C	6,461,459C	799	6,561,223
MODELO—C		1,225	
TOPA-EUREKA—C	2,836,345	290,090	3,126,435
TEMESCAL		51,432	
TORREY CANYON—C	26,535,031†	872,617	27,407,648
SANTA PAULA GROUP		10,760	
EX-MISSION—D	2,232,236	45,370	2,299,234 D
SISAR-SILVERTHREAD—D	24,302,795	805,619	25,108,414
SOUTH MOUNTAIN		7,956	
SULPHUR MOUNTAIN—D		1,260	
TIMBER CANYON—D		1,652	
TIP-TOP FRESNO—D			
WEST MOUNTAIN	3,490,047	458,885	3,948,932
SIMI-CONEJO-OXNARD	174,101		174,101
CONEJO	1,080,806	431,478	1,512,284
OXNARD	2,235,140	27,407	2,262,547
SIMI	78,358		78,358
VENTURA-OJAI—Lion Mountain	1,361,194	31,827	1,393,021
OTHER COASTAL COUNTIES	919,353	24,240	943,593
SAN LUIS OBISPO	780,174	12,228	792,402
EDNA	139,179	12 012	151 191
PISMO	113,358	7,429	120,787
Martin	25,821	4,583	30,404
East Alberta	41,477		41,477
SAN MATEO—HALF MOON BAY	400,364	7,587	407,951
SANTA CLARA	60,889	140	61,029
LOS GATOS	339,475	7,447	346,922
SARGENT			
COASTAL TOTAL	649,956,919	52,568,392	747,525,311
LOS ANGELES BASIN			
ALAMITOS HEIGHTS—All Pools	24,999,419	233,275	25,232,694
ALISO CANYON	4,281,664†	1,153,142	5,434,806
Porter	3,555,953	467,788	4,023,741*
Sesnon	713,068	669,234	1,382,302*
Faulted Sesnon	9,905	10,887	20,792
Eocene	2,738	5,233	7,971
BREA-OLINDA DISTRICT	180,116,760	4,177,263	184,294,023
BREA		1,833,094	
OLINDA	168,492,287	1,476,236	171,801,617
TONNER	11,624,473	867,933	12,492,406*
COYOTE EAST	49,659,879	1,830,710	51,490,589
Graham-Loftus-Hualde	42,186,203	845,481	43,031,684
Mathis	4,763,213	504,537	5,267,750
Stern	2,710,463	480,692	3,191,155
COYOTE WEST	138,083,996	5,259,409	143,343,405
Murphy		1,619,962	
Ninety-nine	123,470,600	1,339,037	126,429,599
Lower Ninety-nine East	133,387	412,253	545,640*
Emery East	4,829,092	1,100,876	5,929,968*
Emery West	9,562,860	773,476	10,336,336*
McNally	88,057	13,805	101,862
DOMINGUEZ	155,170,828	6,729,372	161,900,200
Pliocene	126,080,837	5,061,677	131,742,514
5th West Block	172,354	359,914	532,268*
Other Blocks	126.508,483	4,701,763	131,210,246
Miocene	28,489,991	1,667,695	30,157,686
7th Central Block	6,244,193	225,718	6,469,911*
8th Central Block	8,055,670	367,190	8.425,860*
South Central Block	3,358,208	284,171	3,642,379*
Southwest Block	583,519	41,464	624,983

	Cumulative To Jan. 1, 1945	1945	Cumulative To Jan. 1, 1946
LOS ANGELES BASIN—Continued			
West Block	8,895,641	655,281	9,550,922*
West Town Lot Block	1,349,760	93,871	1,443,631
EL SEGUNDO	11,252,951	286.645	11,539,596
West Area	7,161	12,368	19,529
Other Areas	11,245,790	274,277	11,520,067
HUNTINGTON BEACH NEW	111,966,176	11,952,652	123,918,828
On-Shore Area	43,467,456	1,506,658	44,974,114
Main Area and Tar Zone	42,651,650	1,040,154	43,691,804
A-37	815,806	445,519	1,261,325
A-66		20,985	20,985*
Off-Shore Area	68,498,720	10,445,994	78,944,714
Main	65,073,989	6,434,237	71,508,226
Jones	3,424,731	4,011,757	7,436,488*
HUNTINGTON BEACH OLD	231,382,913	5,631,294	237,014,207
Bolsa Area	17,080,014	2,480,112	19,560,126
Tar Bolsa	1,947,553	230,409	2,177,862*
Ashton	15,132,461	2,249,703	17.382,164*
Upper	6,847,348	1,287,084	8,134,432*
Lower	8,285,113	962,619	9,247,732*
Other Areas	214,302,899	3,151,182	217,454,081
Tar Bolsa		457,533	
Ashton		2,693,649	
INGLEWOOD	145,805,304	5,620,662	151,425,966
Vickers-Machado	117,110,269	2,965,788	120,076,057
Rindge	13,493,212	1,076,365	14,569,577
Rubel	12,321,492	1,103,729	13,425,221
Moynier	32,900	24,599	57,499
Sentous	2,847,431	450,181	3,297,612
LONG BEACH	698,985,925	9,779,306	708.765,231
Old Areas	695,324,493	9,575,178	704,899,671
Upper	694,651,307	9,483,472	704,134,779
De Soto	673,186	91,706	764,892
Northwest Extension Area	3,661,432	204,128	3,865,560
MONTEBELLO	139,042,518	3,646,906	142,689,424
Main Area—Baldwin One-Two-Three	116,370,126	2,662,140	119,032,266
East Area	3,380,205	74,311	3,454,516
Cruz	188,265	1,618	189,883
Nutt	3,191,940	72,693	3,264,633
West Area	19,292,187	910,455	20,202,642
Fifth Zone	1,856,969	71,413	1,928,382
Sixth Zone	1,596,860	46,724	1,643,584
Masser Zone	4,058,925	218,408	4,277,333
Seventh Zone	1,678,419	95,833	1,774,252
Eighth Zone	10,091,537	376,407	10,467,944
Ninth Miocene	9,477	101,670	111,147
PLAYA DEL REY	50,592,105	898,523	51,490,628
Del Rey Hills Area	9,526,460	229,440	9,755,900
Venice Area	41,065,645	669,083	41,734,728
POTRERO	5,329,360	381,165	5,710,525
Central Area	2,239,580	259,809	2,499,389
East Area and West Area	3,089,780	121,356	3,211,136
RICHFIELD	99,742,711	2,596,539	102,339,250
East Area		1,341,276	
West Area		1,255,263	
ROSECRANS-ATHENS	55,308,608	2,082,038	57,390,646
Rosecrans Area		1,621,737	
Maxwell-Hoge		231,176	
Zinns		192,837	
Miocene	17,104,909	1,197,724	18,302,633
Seventh	16,045,804	757,461	16,803,265
Eighth	902,088	270,878	1,172,966
Bank (Miocene 7 and 8)	157,017	169,385	326,402*
Athens Area		460,301	
Upper		97,124	
Lower		254,620	
Miocene	551,615	108,557	660,172
SANTA FE SPRINGS—All Pools	493,064,929	6,277,326	505,342,255
SEAL BEACH	73,542,267	3,185,304	76,727,571
North Block—Selover		41,926	41,926
San Gabriel		51,762	51,762*
Wasem	1,096,375	243,148	1,339,523*
McGrath	375,352	1,055,145	1,430,497*
Selover (West Area)	19,382	28,826	48,208*
South Block—Bixby-Selover	26,127,535	554,701	26,682,236
Wasem	38,150,255	894,381	39,044,636
McGrath	7,773,368	315,415	8,088,783
TORRANCE-HERMOSA	113,228,984	3,231,681	116,460,665
Hermosa Area	574,202	25,721	599,923
Torrance Area	109,911,591	2,909,309	112,820,900
Main	95,214,631	1,824,385	97,039,016
Thirty-four	9,886,580	431,933	10,318,513
D. & B.	3,316,929	174,714	3,491,643
Vesta	1,493,451	478,277	1,971,728
Torrance Extension Area	2,743,191	296,651	3,039,842
WHITTIER	19,555,825	366,741	19,922,566
Bartola Area	68,902		68,902
Central Area		323,509	
La Habra Area	51,703	14,949	66,652
Rideout-Heights Area		28,283	
WILMINGTON	244,593,861	36,145,159	280,739,020
Fault Block I (Terminal Area)	18,385,990	3,557,66	21,943,650
Tar-Ranger-Terminal	15,899,586	2,548,660	18,448,246
Ford	2,486,404	1,009,000	3,495,404*
Fault Block II (Terminal Area)	46,676,825	6,994,620	53,671,445
Tar-Ranger	9,497,051	1,715,737	11,212,788*
Terminal U & L	35,401,600	4,307,835	39,709,435*
Ford	1,249,236	776,360	2,025,596*
U. P.	528,938	194,688	723,626*
Fault Block III (Terminal Area)	17,539,897	4,666,592	22,206,489
Tar-Ranger	6,809,871	2,202,911	9,012,782*
Upper Terminal	6,858,117	1,818,253	8,676,370*
Lower Terminal	3,769,074	592,289	4,361,363*
U. P.	102,835	53,139	155,794*
Fault Block IV (Harbor Area)	71,628,057	9,208,689	80,836,746
Tar	113,657	91,062	204,719*
Terminal U & L	71,514,400	8,994,904	80,509,304*
Ford		122,723	122,723*

CALIFORNIA FIELD & POOL
CRUDE OIL PRODUCTION
TOTAL BARRELS

	Cumulative To Jan. 1, 1945	1945	Cumulative To Jan. 1, 1946
LOS ANGELES BASIN—Continued			
Fault Block IV&V (Harbor Area) Ranger	27,424,614	5,345,070	32,769,684
Fault Block V (Harbor Area) Terminal	7,012,657	976,289	7,988,946*
Town Lot Area	55,925,821	5,396,239	61,322,060
Tar-Ranger-Terminal		5,169,461	
Ford		286,778	
OTHER FIELDS	72,304,116	979,601	73,283,717
BUENA PARK	123,549	38,228	161,777
East Area	115,869	20,935	136,804
West Area	7,680	17,293	24,973
CHINO	2,536		2,536
KRAEMER	1,622,508	32,739	1,655,247
LAWNDALE	1,099,940	8,388	1,108,328
LOS ANGELES DISTRICT	66,583,841	181,975	66,765,816
BEVERLY HILLS	4,505,407	41,792	4,547,199
LOS ANGELES	54,385,790	58,400	54,444,190
SALT LAKE	7,692,644	81,783	7,774,427
NEWPORT BEACH	136,768	361,164	497,932
PUENTE HILLS	714,248	9,726	723,974
SANSINENA		21,520	21,520
TURNBULL	331,598	65,546	397,144
WESTERN AVENUE	27,247	8,858	36,105
YORBA LINDA	1,661,881	251,457	1,913,338
Shell	605,230	97,171	702,401
Smith	1,056,651	154,286	1,210,937
LOS ANGELES BASIN TOTAL	3,124,011,099	112,444,713	3,236,455,812
STATE TOTAL	6,663,327,066	325,898,913	6,989,225,979

CONDENSATE (Raw and Debutanized)

	Cumulative To Jan. 1, 1945	1945	Cumulative To Jan. 1, 1946
COLES LEVEE SOUTH	2,680,230	122,353	2,802,583
PALOMA—All Pools	1,878,731	1,738,873	3,617,604
TOTAL CONDENSATE	4,558,961	1,861,226	6,420,187

To January 1, 1945

COALINGA WEST
Less adjustment of 234,766 Bbls. transferred to Jacalitos Anticline.

COLES LEVEE SOUTH
Less adjustment of 2,680,199 Bbls. Condensate previously included as Oil and carried as footnote.

JACALITOS ANTICLINE
Add adjustment of 234,766 Bbls. previously carried in Coalinga West.

PALOMA
Less adjustment of 1,877,799 Bbls. Condensate previously included as Oil and carried as footnote.

SANTA PAULA
Less adjustment of 19,931 Bbls. account of previous reports being overstated.

*—Decrease.
†—Revised.
A—Accumulatives include Topa-Topa.
B—Accumulatives include Elsmer Canyon—Pico Canyon—Wiley Towsley Canyon.
C—Accumulatives include Modelo-Tapo-Eureka-Torrey Canyon—Hopper Canyon
D—Accumulatives include Exmission—Sisar Silverthread-Sulphur Mountain—Tiptop-Fresno Canyon.
E—Field and Pool figures taken from State Mining Bureau—January 10th Reports—Office Form P-108.

ANHYDROX
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BAROID SALES DIVISION
NATIONAL LEAD COMPANY
LOS ANGELES 12 • TULSA 3 • HOUSTON 2

TIME TO CHECK YOUR **DEHYDRATION**

	Yes	No	Don't Know
Are you using the right grade?	☐	☐	☐
Are you using the right amount?	☐	☐	☐
Are you operating efficiently?	☐	☐	☐

If your dehydration doesn't meet your needs 100%, we'll gladly give you expert advice based on your individual requirements. No obligation. Just drop a card to

NOBS DEHYDRATING CORPORATION
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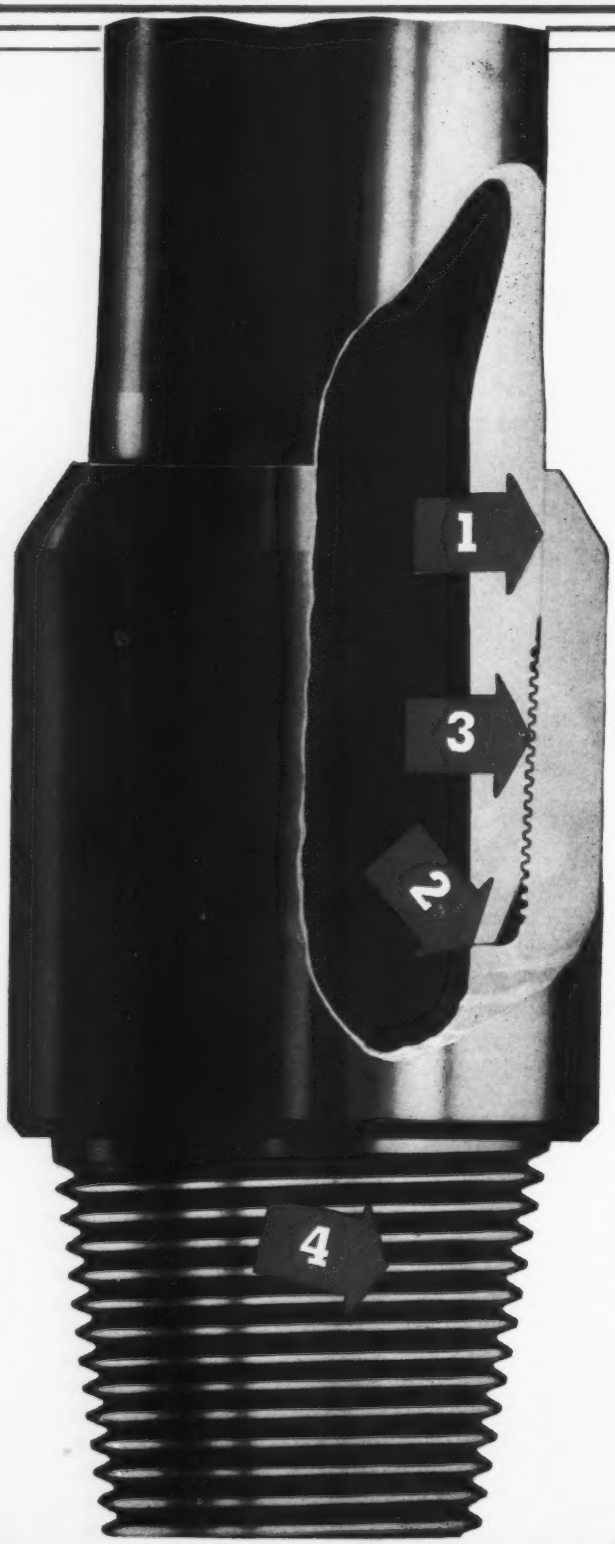
METHOD OF OPERATION
CALIFORNIA FIELDS AND POOLS
DECEMBER — 1945

Prepared by the Conservation Committee of California Oil Operators

SAN JOAQUIN VALLEY	Number of Wells						Well Production—Barrels Daily				Well Production—Total Barrels			
			Method of Operation											
	Shut-In	Producing	Flowing	Gas Lift	Pumping	Total Wells	Flowing	Gas Lift	Pumping	Total	Flowing	Gas Lift	Pumping	Total
BELRIDGE NORTH	63	65	42	10	13	128	4,222	1,123	202	5,547	130,894	34,812	6,273	171,979
Shallow	3	10	1	...	9	13	12	.....	45	57	364	.....	1,393	1,757
Temblor	10	3	.....	1	2	13	.....	575	82	657	.....	17,817	2,557	20,374
"R-Sand"	6	1	1	...	.....	7	115	.....	.....	115	3,564	.....	.....	3,564
Wagon Wheel	44	43	33	8	2	87	3,257	506	75	3,838	100,982	15,679	2,323	118,984
"Y-Sand"	.....	8	7	1	.....	8	838	42	.....	880	25,984	1,316	.....	27,300
BELRIDGE SOUTH	109	668	.....	...	668	777	.....	.....	10,741	10,741	.....	.....	332,963	332,963
South Belridge Area Shallow	109	666	.....	...	666	775	.....	.....	10,725	10,725	.....	.....	332,479	332,479
Middle Belridge Area Shallow	.....	2	.....	...	2	2	.....	.....	16	16	.....	.....	484	484
BUENA VISTA	42	972	139	...	833	1,014	24,825	.....	15,057	39,882	769,575	.....	466,757	1,236,332
Buena Vista Front	11	150	.....	...	150	161	.....	.....	4,463	4,463	.....	.....	138,352	138,352
Buena Vista Hills	31	822	139	...	683	853	24,825	.....	10,594	35,419	769,575	.....	328,405	1,097,980
27-B	14	152	139	...	13	166	24,825	.....	1,383	26,208	769,575	.....	42,883	812,458
Others	17	670	.....	...	670	687	.....	.....	9,211	9,211	.....	.....	285,522	285,522
CANAL—Stevens	6	33	25	...	8	39	2,617	.....	162	2,779	81,138	.....	5,004	86,142
COALINGA EAST	179	803	194	26	583	982	52,641	3,700	18,687	75,028	1,631,868	114,716	579,315	2,325,899
Main Area	157	581	.....	...	581	738	.....	.....	18,520	18,520	.....	.....	574,133	574,133
Temblor	150	575	.....	...	575	725	.....	.....	18,430	18,430	.....	.....	571,331	571,331
Cretaceous	7	6	.....	...	6	13	.....	.....	90	90	.....	.....	2,802	2,802
Coalinga Nose Area Eocene	9	159	140	17	2	168	41,896	2,805	167	44,868	1,298,782	86,961	5,182	1,390,925
Coalinga Northeast Area Eocene	12	42	37	5	.....	54	7,545	456	.....	8,001	233,893	14,132	.....	248,025
Pleasant Valley Area Eocene	1	21	17	4	.....	22	3,200	439	.....	3,639	99,193	13,623	.....	112,816
COALINGA WEST—Main Area	44	737	.....	...	737	781	.....	.....	7,010	7,010	.....	.....	217,303	217,303
COFFEE CANYON	1	61	.....	...	61	62	.....	.....	1,174	1,174	.....	.....	36,402	36,402
COLES LEVEE NORTH	14	81	79	1	1	95	22,153	36	72	22,261	686,752	1,101	2,229	690,082
Northwest Area	.....	1	.....	...	1	1	.....	.....	72	72	.....	.....	2,229	2,229
Richfield Western Area	14	80	79	1	.....	94	22,153	36	.....	22,189	686,752	1,101	.....	687,853
21-1	7	13	13	...	.....	20	2,835	.....	.....	2,835	87,902	.....	.....	87,902
Western-29	3	10	10	...	.....	13	1,519	.....	.....	1,519	47,074	.....	.....	47,074
Main Western	4	57	56	1	.....	61	17,799	36	.....	17,835	551,776	1,101	.....	552,877
COLES LEVEE SOUTH—Stevens	2	34	34	...	.....	36	2,308	.....	.....	2,308	71,549	.....	.....	71,549
EDISON—Main Area	16	179	22	2	155	195	5,123	4	5,765	10,892	158,822	120	178,726	337,668
First Duff	11	61	.....	...	61	72	.....	.....	1,508	1,508	.....	.....	46,750	46,750
Second Duff	5	78	.....	1	77	83	.....	1	2,401	2,402	.....	30	74,416	74,446
Fractured Schist	.....	36	22	...	14	36	5,123	.....	1,806	6,929	158,822	.....	56,001	214,823
Fairfax Area Wicker	.....	4	.....	1	3	4	.....	3	50	53	.....	90	1,559	1,649
ELK HILLS	299	248	.....	...	248	547	.....	.....	14,302	14,302	.....	.....	443,371	443,371
Main Area	298	248	.....	...	248	546	.....	.....	14,302	14,302	.....	.....	443,371	443,371
Upper	293	248	.....	...	248	541	.....	.....	14,302	14,302	.....	.....	443,371	443,371
Lower	5	.....	.....	...	.....	5	.....	.....	.....	.....	.....	.....	.....	.....
Northwest Area Olig	1	.....	.....	...	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
FRESNO AREA	20	146	126	1	19	166	10,886	112	543	11,541	337,468	3,488	16,837	357,793
BURREL—Miocene	.....	2	.....	...	2	2	.....	.....	13	13	.....	.....	414	414
HELM	4	47	45	...	2	51	4,154	.....	72	4,226	128,794	.....	2,233	131,027
Temblor	1	5	5	...	.....	6	644	.....	.....	644	19,984	.....	.....	19,984
Upper	.....	5	5	...	.....	5	644	.....	.....	644	19,984	.....	.....	19,984
Lower	1	.....	.....	...	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Eocene	3	42	40	...	2	45	3,510	.....	72	3,582	108,810	.....	2,233	111,043
LANARE	.....	15	12	...	3	15	1,141	.....	151	1,292	35,370	.....	4,684	40,054
Miocene	.....	11	11	...	.....	11	1,065	.....	.....	1,065	33,023	.....	.....	33,023
Eocene	.....	4	1	...	3	4	76	.....	151	227	2,347	.....	4,684	7,031
PANOCHE CREEK	.....	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
RAISIN CITY	7	31	23	...	8	38	2,435	.....	242	2,677	75,474	.....	7,492	82,966
Miocene	3	23	15	...	8	26	1,446	.....	242	1,688	44,821	.....	7,492	52,313
Eocene	4	8	8	...	.....	12	989	.....	.....	989	30,653	.....	.....	30,653
RIVERDALE	9	51	46	1	4	60	3,156	112	65	3,333	97,830	3,488	2,014	103,332
Miocene	8	22	20	...	2	30	1,793	.....	25	1,818	55,595	.....	780	56,375
Eocene	1	29	26	1	2	30	1,363	112	40	1,515	42,235	3,488	1,234	46,957
TURK ANTICLINE	.....	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
FRUITVALE—Martin-Kerneo	21	191	.....	...	191	212	.....	.....	8,059	8,059	.....	.....	249,835	249,835
GREELEY	8	89	71	...	18	97	9,071	.....	1,302	10,373	281,201	.....	40,368	321,569
Greeley	.....	12	.....	...	12	12	.....	.....	686	686	.....	.....	21,273	21,273
11-2	8	77	71	...	6	85	9,071	.....	616	9,687	281,201	.....	19,095	300,296
KERN FRONT—All Pools	13	583	.....	...	583	596	.....	.....	8,385	8,385	.....	.....	259,940	259,940
KERN RIVER—All Pools	56	2,211	.....	...	2,211	2,267	.....	.....	9,496	9,496	.....	.....	294,371	294,371
KETTLEMAN NORTH DOME	84	291	94	109	88	375	11,587	19,046	7,393	38,026	359,192	590,439	229,183	1,178,814
Temblor	74	217	52	85	80	291	6,986	15,306	6,730	29,022	216,580	474,479	208,622	899,681
Vaqueros	1	42	11	23	8	43	1,880	3,736	663	6,279	58,278	115,808	20,561	194,647
Eocene	9	32	31	1	.....	41	2,721	4	.....	2,725	84,334	152	.....	84,486
LOST HILLS	3	386	.....	...	386	389	.....	.....	3,472	3,472	.....	.....	107,633	107,633
Main Area	2	360	.....	...	360	362	.....	.....	3,219	3,219	.....	.....	99,793	99,793
Wiliamson Area	1	26	.....	...	26	27	.....	.....	253	253	.....	.....	7,840	7,840
McKITTRICK DISTRICT	4	357	12	...	345	361	2,288	.....	5,473	7,761	70,939	.....	169,657	240,596
CYMRIC—Shallow	2	63	.....	...	63	65	.....	.....	973	973	.....	.....	30,166	30,166
54-21	.....	1	.....	...	1	1	.....	.....	29	29	.....	.....	900	900
Anderson 45	.....	10	8	...	2	10	1,251	.....	133	1,384	38,779	.....	4,130	42,909
Brunt	.....	4	4	...	.....	4	1,037	.....	.....	1,037	32,160	.....	.....	32,160
McKITTRICK	1	224	.....	...	224	225	.....	.....	3,149	3,149	.....	.....	97,613	97,613
McKITTRICK FRONT	1	43	.....	...	43	44	.....	.....	1,174	1,174	.....	.....	36,390	36,390
Upper	.....	23	.....	...	23	23	.....	.....	622	622	.....	.....	19,270	19,270
Lower	1	20	.....	...	20	21	.....	.....	552	552	.....	.....	17,120	17,120
TEMBLOR RANCH	.....	12	.....	...	12	12	.....	.....	15	15	.....	.....	458	458
MIDWAY-MARICOPA DISTRICT	80	2,761	11	...	2,750	2,841	1,556	.....	37,108	38,664	48,233	.....	1,150,356	1,198,589
Lake View Area	3	50	.....	...	50	53	.....	.....	2,417	2,417	.....	.....	74,947	74,947
Gibson Area	...	12	.....	...	12	12	.....	.....	330	330	.....	.....	10,251	10,251
Maricopa Flat Area	4	47	.....	...	47	51	.....	.....	686	686	.....	.....	21,261	21,261
Midway East Area	27	637	6	...	631	664	294	.....	9,252	9,546	9,127	.....	286,798	295,925
Midway West Area	42	1,924	1	...	1,923	1,966	4	.....	21,530	21,534	110	.....	667,429	667,539
Quality Area	2	58	.....	...	58	60	.....	.....	1,713	1,713	.....	.....	53,088	53,088
Republic Area	2	21	.....	...	21	23	.....	.....	734	734	.....	.....	22,763	22,763
Section 6 Area	.....	6	.....	...	6	6	.....	.....	446	446	.....	.....	13,814	13,814
Santiago Area	.....	6	4	...	2	6	1,258	.....	.....	1,258	38,996	.....	5	39,001
Shallow	.....	2	.....	...	2	2	.....	.....	.....	.....	.....	.....	5	5
Leutholtz	.....	4	4	...	.....	4	1,258	.....	.....	1,258	38,996	.....	.....	38,996
MOUNT POSO DISTRICT	27	480	.....	...	480	507	.....	.....	17,212	17,212	.....	.....	533,587	533,587
BAKER	.....	20	.....	...	20	20	.....	.....	364	364	.....	.....	11,297	11,297
DOMINION	5	39	.....	...	39	44	.....	.....	404	404	.....	.....	12,532	12,532
DORSEY	1	36	.....	...	36	37	.....	.....	386	386	.....	.....	11,986	11,986
MOUNT POSO—Main Area	2	311	.....	...	311	313	.....	.....	14,674	14,674	.....	.....	454,886	454,886
NORTH MOUNT POSO	16	61	.....	...	61	77	.....	.....	1,225	1,225	.....	.....	37,971	37,971
SUNSET	1	9	.....	...	9	10	.....	.....	62	62	.....	.....	1,919	1,919
VEDDER	.....	4	.....	...	4	4	.....	.....	97	97	.....	.....	2,996	2,996
WEST MOUNT POSO	2	.....	.....	...	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
MOUNTAIN VIEW	23	130	.....	...	130	153	.....	.....	2,718	2,718	.....	.....	84,243	84,243

Hand Applied REED *Super Shrink-Grip* TOOL JOINTS



THESE *5 Points* ASSURE YOU OF SAFETY, ECONOMY AND MORE WELLS PER STRING

1 **The "Shrink Grip Safety Area"** supports the drill pipe against bending and failure at last engaged thread. Seals against leakage.

2 **The gauging shoulder** assures proper make-up and gives an added seal against leakage.

3 **Threads with a wide crest and root** assure a dependable connection.

4 **Accurate alignment** between all tool joint and pipe threads reduces torsional stresses and the hazards of costly failures.

5 **Hand application at the rig** reduces application and replacement cost.

REED
ROLLER BIT COMPANY
HOUSTON 1, TEXAS

METHOD OF OPERATION
CALIFORNIA FIELDS AND POOLS
DECEMBER — 1945

SAN JOAQUIN VALLEY—Continued	Number of Wells						Well Production—Barrels Daily				Well Production—Total Barrels			
			Method of Operation											
	Shut-In	Producing	Flowing	Gas Lift	Pumping	Total Wells	Flowing	Gas Lift	Pumping	Total	Flowing	Gas Lift	Pumping	Total
Northwest Area	8	51	.....	...	51	59	.....	.....	584	584	.....	.....	18,094	18,094
Southeast Area	14	63	.....	...	63	77	.....	.....	1,963	1,963	.....	.....	60,864	60,864
Earl Fruit Area	1	5	.....	...	5	6	.....	.....	56	56	.....	.....	1,735	1,735
Arvin Area	.....	11	.....	...	11	11	.....	.....	115	115	.....	.....	3,550	3,550
PALOMA	.....	18	18	...	.....	18	4,732	.....	.....	4,732	146,704	.....	.....	146,704
Paloma—Black Oil	.....	18	18	...	.....	18	4,732	.....	.....	4,732	146,704	.....	.....	146,704
POSO CREEK DISTRICT	16	187	.....	...	187	203	.....	.....	3,622	3,622	.....	.....	112,280	112,280
McVAN	4	10	.....	...	10	14	.....	.....	71	71	.....	.....	2,192	2,192
PREMIER	11	168	.....	...	168	179	.....	.....	3,298	3,298	.....	.....	102,235	102,235
EAST PREMIER	1	9	.....	...	9	10	.....	.....	253	253	.....	.....	7,853	7,853
RIO BRAVO—Rio Bravo—Vedder	3	96	95	...	1	99	13,337	.....	43	13,380	413,454	.....	1,337	414,791
ROUND MOUNTAIN DISTRICT	4	259	.....	...	259	263	.....	.....	8,242	8,242	.....	.....	255,495	255,495
Main Area	.....	139	.....	...	139	139	.....	.....	4,829	4,829	.....	.....	149,692	149,692
Jewett	.....	43	.....	...	43	43	.....	.....	729	729	.....	.....	22,594	22,594
Vedder	.....	96	.....	...	96	96	.....	.....	4,100	4,100	.....	.....	127,098	127,098
North Sharkstooth Vedder	.....	21	.....	...	21	21	.....	.....	894	894	.....	.....	27,713	27,713
Northwest Area Vedder	2	43	.....	...	43	45	.....	.....	1,235	1,235	.....	.....	38,276	38,276
Pyramid Area Vedder	2	50	.....	...	50	52	.....	.....	1,103	1,103	.....	.....	34,182	34,182
West Area Vedder	.....	6	.....	...	6	6	.....	.....	181	181	.....	.....	5,632	5,632
STRAND—Stevens	1	16	5	...	11	17	922	.....	771	1,693	28,587	.....	23,909	52,496
Upper	.....	10	.....	...	10	10	.....	.....	699	699	.....	.....	21,676	21,676
Lower	1	6	5	...	1	7	922	.....	72	994	28,587	.....	2,233	30,820
STRAND EAST—Stevens	.....	7	7	...	.....	7	596	.....	.....	596	18,486	.....	.....	18,486
TEN SECTION—Stevens	3	119	110	...	9	122	8,200	.....	446	8,646	254,211	.....	13,807	268,018
WASCO	3	9	5	...	4	12	910	.....	70	980	28,229	.....	2,162	30,391
Shale	.....	1	1	...	.....	1	.....	.....	.....	.....	2	.....	.....	2
Vedder	3	8	4	...	4	11	910	.....	70	980	28,227	.....	2,162	30,389
WHEELER RIDGE—All Pools	.....	34	.....	...	34	34	.....	.....	221	221	.....	.....	6,843	6,843
WILLIAMS—Williams	3	27	2	...	25	30	149	.....	1,578	1,727	4,601	.....	48,924	53,525
East Block	.....	8	.....	...	8	8	.....	.....	647	647	.....	.....	20,048	20,048
West Block	3	19	2	...	17	22	149	.....	931	1,080	4,601	.....	28,876	33,477
OTHER FIELDS	15	177	28	2	147	192	4,173	90	4,526	8,789	129,369	2,792	140,296	272,457
ANTELOPE PLAINS	1	.....	.....	...	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
ANT HILLS	1	20	.....	...	20	21	.....	.....	1,060	1,060	.....	.....	32,847	32,847
Olcese	1	13	.....	...	13	14	.....	.....	685	685	.....	.....	21,225	21,225
Jewett	.....	7	.....	...	7	7	.....	.....	375	375	.....	.....	11,622	11,622
ARVIN	.....	2	.....	...	2	2	.....	.....	24	24	.....	.....	744	744
BELLEVUE—Upper Stevens	.....	2	2	...	1	3	442	.....	14	456	13,684	.....	451	14,135
BLACKWELLS CORNER	1	21	.....	...	21	22	.....	.....	205	205	.....	.....	6,346	6,346
CANFIELD RANCH	.....	1	.....	...	1	1	.....	.....	33	33	.....	.....	1,031	1,031
CHICO MARTINEZ	1	3	.....	...	3	4	.....	.....	5	5	.....	.....	163	163
DEVIL'S DEN	1	1	.....	...	1	2	.....	.....	1	1	.....	.....	37	37
GOSFORD—Stevens	.....	2	.....	...	2	2	.....	.....	126	126	.....	.....	3,899	3,899
GOULD HILLS	.....	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
JACALITOS ANTICLINE—Temblor	3	55	18	2	35	58	2,616	90	1,392	4,098	81,091	2,792	43,146	127,029
Upper	.....	35	6	2	27	35	787	90	1,000	1,877	24,388	2,792	30,983	58,163
Lower	.....	20	12	...	8	20	1,829	.....	392	2,221	56,703	.....	12,163	68,866
McCLUNG	.....	1	.....	...	1	1	.....	.....	36	36	.....	.....	1,121	1,121
McDONALD ANTICLINE	.....	3	.....	...	3	3	.....	.....	42	42	.....	.....	1,296	1,296
PYRAMID HILLS	5	22	.....	...	22	27	.....	.....	337	337	.....	.....	10,444	10,444
RACE TRACK HILL—Jewett	1	10	7	...	3	11	945	.....	67	1,012	29,307	.....	2,063	31,370
ROSEDALE RANCH	.....	4	.....	...	4	4	.....	.....	154	154	.....	.....	4,777	4,777
SHEEP SPRINGS—Carneros	.....	5	1	...	4	5	170	.....	408	578	5,287	.....	12,636	17,923
TEJON RANCH	.....	21	.....	...	21	21	.....	.....	461	461	.....	.....	14,300	14,300
Metzenbaum	.....	13	.....	...	13	13	.....	.....	198	198	.....	.....	6,130	6,130
Reserve (Grapevine)	.....	1	.....	...	1	1	.....	.....	36	36	.....	.....	1,126	1,126
Richfield	.....	7	.....	...	7	7	.....	.....	227	227	.....	.....	7,044	7,044
TERRA BELLA	.....	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
UNION AVENUE	.....	3	.....	...	3	3	.....	.....	161	161	.....	.....	4,995	4,995
VALLECITOS—Cretaceous	.....	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SAN BENITO COUNTY	1	.....	.....	...	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
SAN JOAQUIN VALLEY TOTAL	1,162	12,455	1,119	151	11,185	13,617	182,296	24,111	193,852	400,259	5,651,272	747,468	6,009,406	12,408,146
COASTAL														
Santa Barbara District														
CAPITAN	2	59	10	...	49	61	1,614	.....	1,488	3,102	50,035	.....	46,136	96,171
Vaqueros	.....	35	.....	...	35	35	.....	.....	1,387	1,387	.....	.....	43,012	43,012
Erburu	2	14	.....	...	14	16	.....	.....	101	101	.....	.....	3,124	3,124
Covarrubias	.....	9	9	...	.....	9	1,457	.....	.....	1,457	45,161	.....	.....	45,161
Coldwater	.....	1	1	...	.....	1	157	.....	.....	157	4,874	.....	.....	4,874
ELWOOD	4	63	3	...	60	67	614	.....	5,289	5,903	19,026	.....	163,974	183,000
Vaqueros	3	57	3	...	54	60	614	.....	5,241	5,855	19,026	.....	162,479	181,505
Sespe	1	6	.....	...	6	7	.....	.....	48	48	.....	.....	1,495	1,495
SANTA BARBARA—Vaqueros	.....	15	.....	...	15	15	.....	.....	90	90	.....	.....	2,775	2,775
SUMMERLAND—All Pools	1	.....	.....	...	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Santa Barbara District														
BRADLEY CANYON	2	.....	.....	...	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
Miocene	1	.....	.....	...	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Sisquoc	1	.....	.....	...	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
CASMALIA—All Pools	20	1	.....	...	1	21	.....	.....	37	37	.....	.....	1,150	1,150
CAT CANYON	5	69	13	...	56	74	2,307	.....	5,800	8,107	71,511	.....	179,820	251,331
East	2	9	.....	...	9	11	.....	.....	740	740	.....	.....	22,928	22,928
West	3	25	.....	...	25	28	.....	.....	1,413	1,413	.....	.....	43,823	43,823
Los Flores	.....	35	13	...	22	35	2,307	.....	3,647	5,954	71,511	.....	113,069	184,580
GATO RIDGE—Tognazzini	4	33	.....	...	33	37	.....	.....	4,059	4,059	.....	.....	125,815	125,815
LOMPOC—All Pools	.....	32	.....	...	32	32	.....	.....	1,300	1,300	.....	.....	40,290	40,290
ORCUTT—All Pools	5	199	.....	...	199	204	.....	.....	3,467	3,467	.....	.....	107,474	107,474
SANTA MARIA VALLEY—All Areas	17	415	29	...	386	432	4,110	.....	29,743	33,853	127,407	.....	922,027	1,049,434
TINAQUAIC	1	.....	.....	...	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
ZACA CREEK	.....	2	.....	...	2	2	.....	.....	243	243	.....	.....	7,543	7,543
Ventura District														
PADRE CANYON—All Pools	.....	27	10	...	17	27	1,930	.....	607	2,537	59,821	.....	18,830	78,651
RINCON	5	102	16	4	82	107	1,319	228	3,326	4,873	40,885	7,074	103,089	151,048
Hobson-Tomson-Miley	5	100	15	4	81	105	1,253	228	3,281	4,762	38,852	7,074	101,696	147,622
Deep	.....	2	1	...	1	2	66	.....	45	111	2,033	.....	1,393	3,426
SAN MIGUELITO	5	34	31	1	2	39	4,746	2	22	4,770	147,116	72	674	147,862
Grubb One	5	27	24	1	2	32	3,369	2	22	3,393	104,443	72	674	105,189
Grubb Two	.....	7	7	...	.....	7	1,377	.....	.....	1,377	42,673	.....	.....	42,673
VENTURA AVENUE	81	487	185	114	188	568	29,795	7,779	8,750	46,324	923,640	241,163	271,246	1,436,049
Shallow Pool	68	309	56	76	177	377	5,203	4,558	8,294	18,055	161,289	141,294	257,096	559,679
A-3, B-3	17	21	5	3	13	38	433	276	516	1,225	13,425	8,554	15,996	37,975
B-1, 2	.....	3	1	...	2	3	88	.....	79	167	2,720	.....	2,452	5,172

★ The new oil well pumping engine with 14 points of superiority—CSCO-66. Rated 13.2 h.p. at 650 r.p.m. Governed speed range 300 to 700 r.p.m.

This Baby PERFORMS!

Here is an entirely new oil well pumping engine—simple in design (one cylinder), smooth running, trouble-free, economical to operate.

No engine should be wilfully neglected, but when through oversight or carelessness proper attention is not given it, the CSCO-66 engine can be depended on to *keep on* operating day after day as long as it is given fuel, oil and water.

Starting is easy in any weather. Oil and water can be added while engine is running. Positive force-feed lubrication, mechanically operated intake valves and 12 other points of superiority have already put the CSCO-66 Series in high favor wherever wells go on pump. Write factory or nearest distributor for fully descriptive bulletin. Climax Engineering Company, General Offices, Clinton, Iowa. *Regional Offices: Chicago, Tulsa, New York.*

climax BLUE STREAK ENGINE
Builder of Climax DIESELS and GENERATING SETS
CLIMAX ENGINEERING COMPANY

MID-CONTINENT DISTRIBUTOR
The Continental Supply Company
General Offices, Dallas

CLIMAX INDUSTRIES, INC.,
901 Sinclair Building
Ft. Worth, Texas

CALIFORNIA DISTRIBUTOR
Climax Engines & Parts Company
2050 Santa Fe Ave., Los Angeles

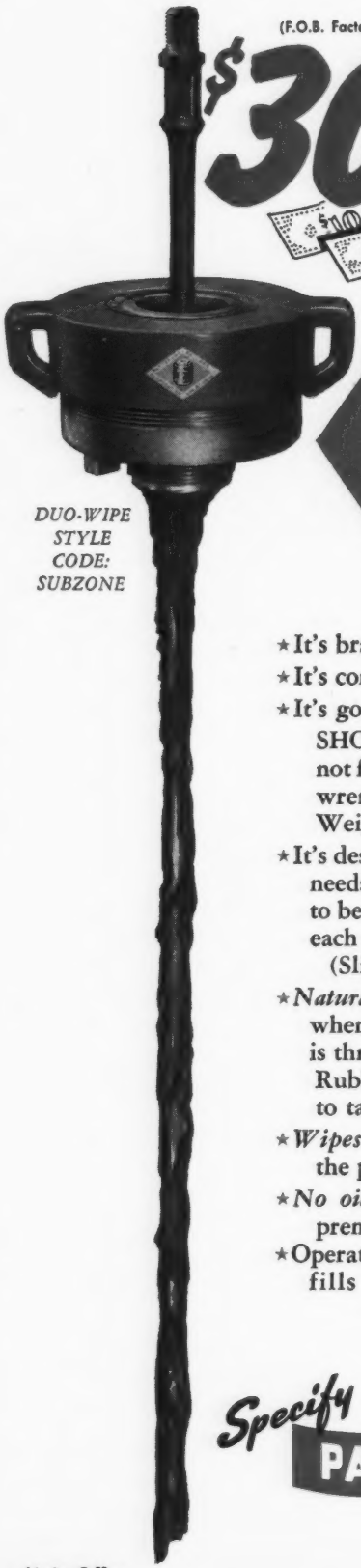
METHOD OF OPERATION
CALIFORNIA FIELDS AND POOLS
DECEMBER — 1945

COASTAL—Continued	Number of Wells						Well Production—Barrels Daily				Well Production—Total Barrels			
			Method of Operation											
	Shut-In	Producing	Flowing	Gas Lift	Pumping	Total Wells	Flowing	Gas Lift	Pumping	Total	Flowing	Gas Lift	Pumping	Total
B-4, 5 West	7	7	7	...	.....	14	1,084	.....	.....	1,084	33,586	.....	.....	33,586
"C" Block	11	264	32	70	162	275	2,553	4,124	7,699	14,376	79,154	127,844	238,648	445,646
C-1, 2 West	4	1	1	...	.....	5	24	.....	.....	24	746	.....	.....	746
C-3 West	27	13	10	3	.....	40	1,021	158	.....	1,179	31,658	4,896	.....	36,554
C-6 West	2	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
Deep Pool	13	178	129	38	11	191	24,592	3,221	456	28,269	762,351	99,869	14,150	876,370
D-3	1	21	7	10	4	22	848	680	59	1,587	26,296	21,088	1,833	49,217
D-4	.....	4	.....	3	1	4	.....	67	40	107	.....	2,078	1,238	3,316
D-5, 6 West	8	59	40	19	.....	67	5,866	1,983	.....	7,849	181,839	61,467	.....	243,306
D-5 West	2	48	41	2	5	50	4,569	138	328	5,035	141,656	4,294	10,164	156,114
D-6 West	2	24	19	4	1	26	2,082	353	29	2,464	64,537	10,942	915	76,394
D-7	.....	22	22	...	.....	22	11,227	.....	.....	11,227	348,023	.....	.....	348,023
VENTURA-OJAI														
TIPTOP-FRESNO CANYON	7	1	.....	...	1	8	.....	.....	3	3	.....	.....	90	90
Santa Paula-Newhall District														
FILLMORE	27	185	.....	...	185	212	.....	.....	2,219	2,219	.....	.....	68,792	68,792
BARDSDALE	.....	36	.....	...	36	36	.....	.....	524	524	.....	.....	16,238	16,238
Elkins Area	.....	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other Area	.....	36	.....	...	36	36	.....	.....	524	524	.....	.....	16,238	16,238
SESPE CANYON	5	19	.....	...	19	24	.....	.....	142	142	.....	.....	4,407	4,407
SHIELLS CANYON	22	129	.....	...	129	151	.....	.....	1,540	1,540	.....	.....	47,747	47,747
TOPA-TOPA	.....	1	.....	...	1	1	.....	.....	13	13	.....	.....	400	400
NEWHALL GROUP	17	118	87	2	29	135	12,893	59	1,005	13,957	399,682	1,828	31,161	432,671
DEL VALLE	5	50	38	2	10	55	5,550	59	572	6,181	172,045	1,828	17,730	191,603
East Area	2	15	13	1	1	17	1,658	9	45	1,712	51,386	267	1,383	53,036
Sherman	1	7	6	...	1	8	570	.....	45	615	17,655	.....	1,383	19,038
Del Valle	.....	4	4	...	.....	4	793	.....	.....	793	24,583	.....	.....	24,583
DL4-DL5	1	1	.....	1	.....	2	.....	9	.....	9	.....	267	.....	267
Bering	.....	3	3	...	.....	3	295	.....	.....	295	9,148	.....	.....	9,148
West Area	2	31	21	1	9	33	3,426	50	527	4,003	106,209	1,561	16,347	124,117
Sepulveda	.....	5	3	1	1	5	336	50	68	454	10,409	1,561	2,112	14,082
Vasquez 13	.....	2	2	...	.....	2	716	.....	.....	716	22,209	.....	.....	22,209
Vasquez-Videgain	2	21	16	...	5	23	2,374	.....	419	2,793	73,591	.....	12,982	86,573
Sterry	.....	3	.....	...	3	3	.....	.....	40	40	.....	.....	1,253	1,253
Ramona	1	4	4	...	.....	5	466	.....	.....	466	14,450	.....	.....	14,450
ELSMERE CANYON	.....	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
HASLEY CANYON	.....	1	.....	...	1	1	.....	.....	14	14	.....	.....	448	448
NEWHALL	.....	8	.....	...	8	8	.....	.....	59	59	.....	.....	1,835	1,835
NEWHALL-POTRERO	12	40	39	...	1	52	5,784	.....	28	5,812	179,297	.....	864	180,161
123	12	38	37	...	1	50	5,300	.....	28	5,328	164,304	.....	864	165,168
6th	.....	2	2	...	.....	2	484	.....	.....	484	14,993	.....	.....	14,993
OAK CANYON	.....	15	10	...	5	15	1,559	.....	324	1,883	48,340	.....	0,040	58,380
1-A	.....	3	.....	...	3	3	.....	.....	31	31	.....	.....	969	969
3-AB	.....	3	1	...	2	3	437	.....	293	730	13,532	.....	9,071	22,603
4-AB	.....	1	1	...	.....	1	159	.....	.....	159	4,945	.....	.....	4,945
5-A	.....	7	7	...	.....	7	886	.....	.....	886	27,472	.....	.....	27,472
8-AB	.....	1	1	...	.....	.....	1	77	.....	77	2,391	.....	.....	2,391
PICO CANYON	.....	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
WILEY-TOWSLEY CANYON	.....	4	.....	...	4	4	.....	.....	8	8	.....	.....	244	244
PIRU GROUP	10	80	.....	...	80	90	.....	.....	965	965	.....	.....	29,922	29,922
HOLSER CANYON	1	1	.....	...	1	2	.....	.....	13	13	.....	.....	400	400
HOPPER CANYON	.....	10	.....	...	10	10	.....	.....	118	118	.....	.....	3,676	3,676
MODELO	1	7	.....	...	7	8	.....	.....	2	2	.....	.....	68	68
TAPO-EUREKA	8	1	.....	...	1	9	.....	.....	2	2	.....	.....	60	60
TEMESCAL	.....	22	.....	...	22	22	.....	.....	693	693	.....	.....	21,479	21,479
TORREY CANYON	.....	39	.....	...	39	39	.....	.....	137	137	.....	.....	4,239	4,239
SANTA PAULA GROUP	5	215	.....	...	215	220	.....	.....	3,092	3,092	.....	.....	95,866	95,866
EX-MISSION	.....	22	.....	...	22	22	.....	.....	29	29	.....	.....	897	897
SISAR-SILVERTHREAD	2	71	.....	...	71	73	.....	.....	128	128	.....	.....	3,957	3,957
SOUTH MOUNTAIN	1	115	.....	...	115	116	.....	.....	2,910	2,910	.....	.....	90,220	90,220
SULPHUR MOUNTAIN	.....	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
TIMBER CANYON	1	7	.....	...	7	8	.....	.....	25	25	.....	.....	792	792
WEST MOUNTAIN	1	.....	.....	...	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
SIMI-CONEJO-OXNARD	3	59	.....	...	59	62	.....	.....	983	983	.....	.....	30,460	30,460
CONEJO	.....	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
OXNARD	3	4	.....	...	.....	7	.....	.....	905	905	.....	.....	28,052	28,052
SIMI	.....	55	.....	...	55	55	.....	.....	78	78	.....	.....	2,408	2,408
Other Coastal Counties	3	20	.....	...	20	23	.....	.....	74	74	.....	.....	2,290	2,290
SAN LUIS OBISPO	2	11	.....	...	11	13	.....	.....	55	55	.....	.....	1,700	1,700
EDNA	1	9	.....	...	9	10	.....	.....	31	31	.....	.....	960	960
HUASNA	.....	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
PISMO	1	2	.....	...	2	3	.....	.....	24	24	.....	.....	740	740
Martin	.....	1	.....	...	1	1	.....	.....	10	10	.....	.....	295	295
East Elberta	1	1	.....	...	1	2	.....	.....	14	14	.....	.....	445	445
SAN MATEO—HALF MOON BAY	.....	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SANTA CLARA	1	9	.....	...	9	10	.....	.....	19	19	.....	.....	590	590
LOS GATOS	1	.....	.....	...	-	1	.....	.....	.....	.....	.....	.....	.....	.....
SARGENT	.....	9	.....	...	9	9	.....	.....	19	19	.....	.....	590	590
COASTAL TOTAL	224	2,216	384	121	1,711	2,440	59,328	8,068	72,562	139,958	1,839,123	250,137	2,249,424	4,338,684
LOS ANGELES BASIN														
ALAMITOS HEIGHTS—All Pools	3	34	.....	1	33	37	.....	15	602	617	.....	465	18,657	19,122
ALISO CANYON	7	30	25	...	5	37	2,792	.....	223	3,015	86,552	.....	6 918	93,470
Porter	5	12	10	...	2	17	1,052	.....	116	1,168	32,613	.....	3,609	36,222
Sesnon	2	16	15	...	1	18	1,740	.....	86	1,826	53,939	.....	2,673	56,612
Faulted Sesnon	.....	1	.....	...	1	1	.....	.....	13	13	.....	.....	386	386
Eocene	.....	1	.....	...	1	1	.....	.....	8	8	.....	.....	250	250
BREA-OLINDA DISTRICT	40	332	1	4	7	372	174	309	10,177	10,660	5,397	9,573	315,503	330,473
BREA	29	77	.....	...	77	106	.....	.....	4,727	4,727	.....	.....	146,552	146,552
OLINDA	8	223	1	...	222	231	174	.....	3,690	3,864	5,397	.....	114,393	119,790
TONNER	3	32	.....	4	28	35	.....	309	1,760	2,069	.....	9,573	54,558	64,131
COYOTE EAST	4	158	.....	...	158	162	.....	.....	4,863	4,863	.....	.....	150,741	150,741
Graham-Loftus-Hualde	3	105	.....	...	105	108	.....	.....	2,294	2,294	.....	.....	71,105	71,105
Mathis	1	32	.....	...	32	33	.....	.....	1,339	1,339	.....	.....	41,508	41,508
Stern	.....	21	.....	...	21	21	.....	.....	1,230	1,230	.....	.....	38,128	38,128
COYOTE WEST	10	191	32	...	159	201	5,039	.....	10,611	15,560	156,215	.....	328,948	485,163
Murphy	.....	88	.....	...	88	88	.....	.....	3,700	3,700	.....	.....	114,686	114,686
Ninety-nine	.....	43	2	...	41	43	563	.....	4,387	4,950	17,445	.....	135,999	153,444
Lower-Ninety-nine East	1	7	5	...	2	8	1,271	.....	307	1,578	39,422	.....	9,535	48,957
Emery East	5	24	16	...	8	29	2,489	.....	775	3.264	77,151	.....	24,032	101,183
Emery West	4	28	9	...	19	32	716	.....	1,403	2,119	22,197	.....	43,496	65,693

(F.O.B. Factory)

$30 makes Sucker Rod Pulling a Pleasure!

Three $10 Bills will Buy this new Wiper



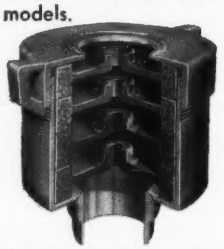
DUO-WIPE STYLE CODE: SUBZONE

HERE IT IS . . . . A REAL ROD WIPER FOR MILES OF CLEAN DRY SUCKER RODS

- ★ It's brand new.
- ★ It's compact.
- ★ It's good—it wipes rods thoroughly.
  SHORT OVERALL HEIGHT, 4", does not force men out of natural position when wrenching rods.
  Weight only 25 lbs.
- ★ It's designed by Well Pullers—it meets their needs. Comes mounted on Pony Rod, ready to be used. Installing Spear furnished with each unit.
  (Slight extra charge for Pony Rod.)
- ★ *Natural rubber wiping web* stretches freely: when boxes are pulled through fast, no oil is thrown on crew.
  Rubbers stand enough pressure to take oil to tank or sump.
- ★ *Wipes any size rod* ⅝" to 1¼", also wipes the pump.
- ★ *No oil leaves hole*—saves clothes—keeps premises clean.
- ★ Operating cost very low—Long wearing refills are inexpensive.

Two PBX Natural Rubber wiping elements sealed in case, no oil leaks around them. Rubbers fit both models. The only wiper that effectively wipes rods, square, boxes and pump. Oil drains back into tubing.

Handy Table Plate Head holds tools. For both models.



The SUBZONE has a big brother: The Quadra-Wipe Style. Code name: SUBSOLAR. Uses four rubbers. Recommended for extra low gravity oil.

Specify PATTERSON-BALLAGH

"Best Bet Yet"

SUCKER ROD WIPERS

Main Office
1900 E. 65th St.
LOS ANGELES 1

★ 1506 Maury St.
HOUSTON 10

★ 92 Liberty St.
NEW YORK 6

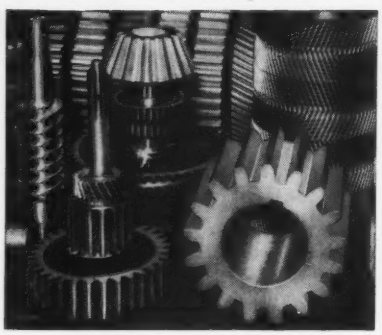
★ 1621 E. Yellowstone
CASPER, WYO.

★ 210 Post Street
SAN FRANCISCO 8

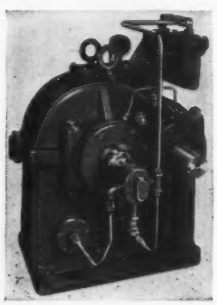
METHOD OF OPERATION
CALIFORNIA FIELDS AND POOLS
DECEMBER — 1945

LOS ANGELES BASIN—Continued	Number of Wells						Well Production—Barrels Daily				Well Production—Total Barrels			
	Method of Operation													
	Shut-In	Producing	Flowing	Gas Lift	Pumping	Total Wells	Flowing	Gas Lift	Pumping	Total	Flowing	Gas Lift	Pumping	Total
McNally	.....	1	.....	.....	1	1	.....	.....	39	39	.....	.....	1,200	1,200
DOMINGUEZ	6	315	17	44	254	321	2,279	2,244	12,702	17,225	.....	.....	393,754	533,970
Pliocene	4	216	11	9	196	220	1,983	542	10,265	12,790	61,464	16,814	318,217	396,495
5th West Block	.....	5	5	...	.....	5	978	.....	.....	978	30,322	.....	.....	30,322
Other Blocks	4	211	6	9	196	215	1,005	542	10,265	11,812	31,142	16,814	318,217	366,173
Miocene	2	99	6	35	58	101	296	1,702	2,437	4,435	12,960	48,978	75,537	137,475
7th Central Block	.....	16	3	8	5	16	93	272	214	579	2,877	8,429	6,634	17,940
8th Central Block	.....	19	2	10	7	19	146	414	414	974	4,530	12,831	12,836	30,197
South Central Block	.....	16	.....	3	13	16	.....	122	617	739	.....	3,774	19,115	22,889
Southwest Block	.....	4	.....	2	2	4	.....	66	33	99	.....	2,057	1,020	3,077
West Block	1	33	1	12	20	34	57	828	948	1,833	1,779	25,661	29,401	56,841
West Town Lot Block	1	11	.....	...	11	12	.....	.....	211	211	.....	.....	6,531	6,531
EL SEGUNDO	1	33	.....	...	33	34	.....	.....	699	699	.....	.....	21,664	21,664
West Area	.....	1	.....	...	1	1	.....	.....	34	34	.....	.....	1,054	1,054
Other Areas	1	32	.....	...	32	33	.....	.....	665	665	.....	.....	20,610	20,610
HUNTINGTON BEACH NEW	27	376	35	...	341	403	5,990	.....	25,202	31,192	185,706	.....	781,270	966,976
On-Shore Area	25	174	1	...	173	199	86	.....	3,837	3,923	2,674	.....	118,955	121,629
Tar Zone	14	38	.....	...	38	52	.....	.....	459	459	.....	.....	14,222	14,222
Main	11	104	.....	...	104	115	.....	.....	2,368	2,368	.....	.....	73,409	73,409
A-37	.....	31	.....	...	31	31	.....	.....	1,010	1,010	.....	.....	31,324	31,324
A-66	.....	1	1	...	.....	1	86	.....	.....	86	2,674	.....	.....	2,674
Off-Shore Area	2	202	34	...	168	204	5,904	.....	21,365	27,269	183,032	.....	662,315	845,347
Main	1	142	.....	...	142	143	.....	.....	18,033	18,033	.....	.....	559,031	559,031
Jones	1	60	34	...	26	61	5,904	.....	3,332	9,236	183,032	.....	103,284	286,316
HUNTINGTON BEACH OLD	14	462	13	...	449	476	1,232	.....	13,951	15,183	38,182	.....	432,488	470,670
Tar Bolsa	2	57	.....	...	57	59	.....	.....	1,614	1,614	.....	.....	50,032	50,032
Ashton	12	405	13	...	392	417	1,232	.....	12,337	13,569	38,182	.....	382,456	420,638
INGLEWOOD	5	306	13	1	292	311	772	119	13,145	14,036	23,916	3,689	407,508	435,113
Vickers-Machado	1	223	.....	...	223	224	.....	.....	7,833	7,833	.....	.....	242,810	242,810
Rindge	.....	34	.....	...	34	34	.....	.....	2,686	2,686	.....	.....	83,262	83,262
Rubel	.....	22	.....	1	21	22	.....	119	2,290	2,409	.....	3,689	71,000	74,689
Moynier	.....	3	.....	...	3	3	.....	.....	106	106	.....	.....	3,296	3,296
Sentous	4	24	13	...	11	28	772	.....	230	1,002	23,916	.....	7,140	31,056
LONG BEACH	36	1,138	.....	...	1,138	1,174	.....	.....	26,093	26,093	.....	.....	808,879	808,879
Old Area	36	1,119	.....	...	1,119	1,155	.....	.....	25,570	25,570	.....	.....	792,679	792,679
Upper	36	1,113	.....	...	1,113	1,149	.....	.....	25,324	25,324	.....	.....	785,060	785,060
De Soto	.....	6	.....	...	6	6	.....	.....	246	246	.....	.....	7,619	7,619
Northwest Extension Area	.....	19	.....	...	19	19	.....	.....	523	523	.....	.....	16,200	16,200
MONTEBELLO	18	345	3	16	326	363	208	331	8,489	9,028	6,454	10,243	263,174	279,871
Main Area—Baldwin One-Two-Three	3	233	.....	...	233	236	.....	.....	6,508	6,508	.....	.....	201,770	201,770
East Area	2	13	.....	...	13	15	.....	.....	162	162	.....	.....	5,022	5,022
Cruz	.....	1	.....	...	1	1	.....	.....	4	4	.....	.....	133	133
Nutt	2	12	.....	...	12	14	.....	.....	158	158	.....	.....	4,889	4,889
West Area	13	99	3	16	80	112	208	331	1,819	2,358	6,454	10,243	56,382	73,079
Fifth Zone	2	10	.....	...	10	12	.....	.....	200	200	.....	.....	6,193	6,193
Sixth Zone	.....	3	.....	...	3	3	.....	.....	120	120	.....	.....	3,711	3,711
Masser Zone	.....	9	.....	1	8	9	.....	63	520	583	.....	1,940	16,117	18,057
Seventh Zone	1	8	.....	1	7	9	.....	22	266	288	.....	697	8,238	8,935
Eighth Zone	10	65	.....	14	51	75	.....	246	625	871	.....	7,606	19,396	27,002
Ninth Miocene	.....	4	3	...	1	4	208	.....	88	296	6,454	.....	2,727	9,181
PLAYA DEL REY	7	116	.....	...	116	123	.....	.....	2,274	2,274	.....	.....	70,490	70,490
Del Rey Hills Area	6	12	.....	...	12	18	.....	.....	523	523	.....	.....	16,196	16,196
Venice Area	1	104	.....	...	104	105	.....	.....	1,751	1,751	.....	.....	54,295	54,294
POTRERO	.....	25	6	10	9	25	406	618	116	1,140	12,607	19,162	3,563	35,332
Central Area	.....	11	2	9	.....	11	143	561	.....	704	4,444	17,383	.....	21,827
East Area	.....	9	4	1	4	9	263	57	70	390	8,163	1,779	2,159	12,101
Potrero No. 2	.....	1	1	...	.....	1	91	.....	.....	91	2,815	.....	.....	2,815
Other Pools	.....	8	3	1	4	8	172	57	70	299	5,348	1,779	2,159	9,286
West Area	.....	5	.....	...	5	5	.....	.....	46	46	.....	.....	1,404	1,404
RICHFIELD	7	312	.....	...	312	319	.....	.....	7,209	7,209	.....	.....	223,465	223,465
East Area	6	233	.....	...	233	239	.....	.....	3,562	3,562	.....	.....	110,419	110,419
West Area	1	79	.....	...	79	80	.....	.....	3,647	3,647	.....	.....	113,046	113,046
ROSECRANS-ATHENS	13	178	3	15	160	191	847	941	3,458	5,246	26,252	29,160	107,220	162,632
Rosecrans Area	10	134	1	14	119	144	737	911	2,407	4,055	22,832	28,244	74,638	125,714
Maxwell-Hoge	2	23	.....	5	18	25	.....	165	392	557	.....	5,121	12,163	17,284
Zinna	1	21	1	9	11	22	48	212	290	550	1,477	6,565	9,005	17,047
Miocene	7	90	9	22	59	97	689	534	1,725	2,948	21,355	16,558	53,470	91,383
Seventh	7	75	2	22	51	82	14	534	1,408	1,956	441	16,558	43,644	60,643
Eighth	.....	13	5	...	8	13	371	.....	317	688	11,503	.....	9,826	21,329
Bank (Miocene 7 and 8)	.....	2	2	...	.....	2	304	.....	.....	304	9,411	.....	.....	9,411
Athens Area	3	44	2	1	41	47	110	30	1,051	1,191	3,420	916	32,582	36,918
Upper	1	11	.....	...	11	12	.....	.....	243	243	.....	.....	7,548	7,548
Lower	1	27	2	1	24	28	110	30	583	723	3,420	916	18,068	22,404
Miocene	1	6	.....	...	6	7	.....	.....	225	225	.....	.....	6,966	6,966
SANTA FE SPRINGS—All Pools	14	551	.....	...	551	565	.....	.....	16,750	16,750	.....	.....	519,243	519,243
SEAL BEACH		119	19	13	87	123	3,334	1,139	4,250	8,723	103,372	35,300	131,751	270,423
North Block	.....	31	18	...	13	31	3,321	.....	969	4,290	102,960	.....	30,034	132,994
Selover	.....	3	.....	...	3	3	.....	.....	61	61	.....	.....	1,895	1,895
San Gabriel	.....	1	.....	...	1	1	.....	.....	163	163	.....	.....	5,054	5,054
Wasem	.....	6	.....	...	6	6	.....	.....	498	498	.....	.....	15,427	15,427
McGrath	.....	21	18	...	3	21	3,321	.....	247	3,568	102,960	.....	7,658	110,618
South Block	3	88	1	13	74	92	13	1,139	3,281	4,433	412	35,300	101,717	137,429
Bixby-Selover	1	25	.....	3	22	26	.....	157	1,356	1,513	.....	4,867	42,046	46,913
Wasem	2	43	.....	6	37	45	.....	699	1,432	2,131	.....	21,656	44,390	66,046
McGrath	1	20	1	4	15	21	13	283	493	789	412	8,777	15,281	24,470
TORRANCE-HERMOSA	48	712	.....	...	712	760	.....	.....	8,582	8,582	.....	.....	266,051	266,051
Hermosa Area	.....	6	.....	...	6	6	.....	.....	82	82	.....	.....	2,531	2,531
Torrance Area	45	654	.....	...	654	699	.....	.....	7,701	7,701	.....	.....	238,753	238,753
Main	21	427	.....	...	427	448	.....	.....	4,993	4,993	.....	.....	154,781	154,781
Thirty-four	15	139	.....	...	139	154	.....	.....	1,126	1,126	.....	.....	34,905	34,905
D. & B.	6	32	.....	...	32	38	.....	.....	408	408	.....	.....	12,663	12,663
Vesta	3	56	.....	...	56	59	.....	.....	1,174	1,174	.....	.....	36,404	36,404
Torrance Extension Area	3	52	.....	...	52	55	.....	.....	799	799	.....	.....	24,767	24,767
WHITTIER	6	162	.....	...	162	168	.....	.....	994	994	.....	.....	30,823	30,823
Central Area	4	145	.....	...	145	149	.....	.....	869	869	.....	.....	26,939	26,939
La Habra Area	1	6	.....	...	6	7	.....	.....	37	37	.....	.....	1,143	1,143
Rideout-Heights Area	1	11	.....	...	11	12	.....	.....	88	88	.....	.....	2,741	2,741
WILMINGTON	26	1,450	263	3	1,184	1,476	34,723	412	61,090	96,225	1,076,464	12,787	1,893,746	2,982,997
Fault Block I (Terminal Area)	1	121	23	...	98	122	3,593	.....	6,744	10,337	111,385	.....	209,056	320,441
Tar-Ranger-Terminal	1	94	4	...	90	95	948	.....	6,319	7,267	29,390	.....	195,891	225,281
Ford	.....	27	19	...	8	27	2,645	.....	425	3,070	81,995	.....	13,165	95,160
Fault Block II (Terminal Area)	4	208	89	...	119	212	10,643	.....	7,807	18,450	329,946	.....	241,968	571,914
Tar-Ranger	1	88	9	...	79	89	799	.....	4,184	4,983	24,770	.....	129,704	154,474
Terminal U & L	3	91	51	...	40	94	6,606	.....	3,623	10,229	204,793	.....	112,264	317,057

GEARS—for every need



Four conveniently located Pacific-Western plants are equipped to turn out a wide range of gears—continuous tooth herringbone gears, hob cut herringbone gears, helical, spur, spiral, worm, hypoid and zerol bevel gears.



PACIFIC-WESTERN SPEED INCREASERS

Type CH High Speed Unit designed for speed reducing or speed increasing applications with turbine, fan and centrifugal pump drives. Ideal for applications where pitch line velocities of the gears are higher than desirable for standard low speed units. Available in ratios from 1:1 to 8:059:1, and from 12 hp. to 410 hp.

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Here at Western Gear Works and Pacific Gear & Tool, we have a pool of designing talent and engineering skill that goes beyond the making of gears. We have men who have dealt with and solved hundreds of mechanical power transmission problems in connection with plant designs and manufacturing procedures; also, gear boxes and transmissions within finished products from small, lightweight aircraft units to large, heavy-duty mill drives. Thus, we consider thinking, planning, designing and gearing "know-how" as part of our stock in trade.

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PACIFIC-WESTERN

GEAR PRODUCTS

Plants and Offices: SEATTLE, SAN FRANCISCO, LOS ANGELES, LYNWOOD
Sales Representatives: Portland, Salt Lake, New York

METHOD OF OPERATION
CALIFORNIA FIELDS AND POOLS
DECEMBER — 1945

LOS ANGELES BASIN—Continued	Number of Wells						Well Production—Barrels Daily				Well Production—Total Barrels			
			Method of Operation											
	Shut-In	Producing	Flowing	Gas Lift	Pumping	Total Wells	Flowing	Gas Lift	Pumping	Total	Flowing	Gas Lift	Pumping	Total
Ford	.....	25	25	...	.....	25	2,841	.....	.....	2,841	88,072	.....	.....	88,072
U. P.	.....	4	4	...	.....	4	397	.....	.....	397	12,311	.....	.....	12,311
Fault Block III (Terminal Area)	2	126	57	...	69	128	6,986	.....	4,420	11,406	216,570	.....	137,003	353,573
Tar-Ranger	1	84	21	...	63	85	1,397	.....	3,653	5,050	43,033	.....	113,235	156,538
Upper Terminal	1	27	22	...	5	28	4,066	.....	634	4,700	126,043	.....	19,650	145,693
Lower Terminal	.....	14	13	...	1	14	1,400	.....	133	1,533	43,405	.....	4,118	47,523
U. P.	.....	1	1	...	.....	1	123	.....	.....	123	3,819	.....	.....	3,819
Fault Block IV (Harbor Area)	5	190	47	3	140	195	6,209	412	17,938	24,559	192,507	12,787	556,072	761,366
Tar	.....	5	3	...	2	5	132	.....	189	321	4,108	.....	5 852	9,960
Terminal U & L	5	181	42	3	136	186	5,674	412	17,513	23,599	175,894	12,787	542,911	731,592
Ford	.....	4	2	...	2	4	403	.....	236	639	12,505	.....	7,309	19,814
Fault Block IV & V (Harbor Area) Ranger	4	282	40	...	242	286	5,985	.....	8,364	14,349	185,538	.....	259,291	444,829
Fault Block V (Harbor Area) Terminal	.....	22	7	...	15	22	1,307	.....	1,223	2,530	40,518	.....	37,923	78,441
Town Lot Area	10	501	.....	...	501	511	.....	.....	14,594	14,594	.....	.....	452,433	452,433
Tar-Ranger-Terminal	9	472	.....	...	472	481	.....	.....	13,794	13,794	.....	.....	427,613	427,613
Ford	1	29	.....	...	29	30	.....	.....	800	800	.....	.....	24,820	24,820
OTHER FIELDS	45	183	.....	...	183	228	.....	.....	3,623	3,623	.....	.....	112,307	112,307
BUENA PARK	.....	2	.....	...	2	2	.....	.....	108	108	.....	.....	3,351	3,351
East Area	.....	1	.....	...	1	1	.....	.....	45	45	.....	.....	1,386	1,386
West Area	.....	1	.....	...	1	1	.....	.....	63	63	.....	.....	1,965	1,965
CHINO	.....	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
KRAEMER	.....	10	.....	...	10	10	.....	.....	87	87	.....	.....	2,682	2,682
LAWNDALE	1	2	.....	...	2	3	.....	.....	20	20	.....	.....	626	626
LOS ANGELES DISTRICT	1	91	.....	...	91	92	.....	.....	488	488	.....	.....	15,141	15,141
BEVERLY HILLS	.....	2	.....	...	2	2	.....	.....	107	107	.....	.....	3,309	3,309
LOS ANGELES	.....	82	.....	...	82	82	.....	.....	160	160	.....	.....	4,960	4,960
SALT LAKE	1	7	.....	...	7	8	.....	.....	221	221	.....	.....	6,872	6,872
NEWPORT BEACH	2	45	.....	...	45	47	.....	.....	2,334	2,334	.....	.....	72,351	72,351
PUENTE HILLS	31	.....	.....	...	.....	31	.....	.....	.....	.....	.....	.....	.....	.....
SANSINENA	.....	2	.....	...	2	.....	.....	.....	102	102	.....	.....	3,152	3,152
TURNBULL	.....	7	.....	...	7	7	.....	.....	161	161	.....	.....	4,993	4,993
WESTERN AVENUE	.....	2	.....	...	2	2	.....	.....	12	12	.....	.....	385	385
YORBA LINDA	10	22	.....	...	22	32	.....	.....	311	311	.....	.....	9,626	9,626
Shell	2	11	.....	...	11	13	.....	.....	99	99	.....	.....	3,062	3,062
Smith	8	11	.....	...	11	19	.....	.....	212	212	.....	.....	6,564	6,564
LOS ANGELES BASIN TOTAL	341	7,528	430	107	6,991	7,869	57,796	6,128	235,103	299,027	1,795,541	186.171	7,288,163	9,269,875
STATE TOTAL	1,727	22,199	1,933	379	19,887	23,926	299,420	38,307	501,517	839,244	9,285,936	1,183.776	15,546,993	26,016,705
Condensate Production:														
Coles Levee South	11	17	17	...	.....	28	2,619	.....	.....	2,619	81,186	.....	.....	81,186
Paloma	12	15	15	...	.....	27	4,272	.....	.....	4,272	132,434	.....	.....	132,434
TOTAL	23	32	32	...	.....	55	6,819	.....	.....	6,891	213,620	.....	.....	213,620

'ALLIED' for SERVICE

REPRESENTING

Powell Valves
Bethlehem Pipe
Tube-Turns Inc.
American Chain & Cable Co.
Chain Belt Co.
Ashcroft Gauges
Consolidated Relief Valves
National Transit Pumps
J. I. Case Co.

Fisher Regulators
Forged Steel Fittings
Stockham Pipe Fittings
McCord Lubricators
Tubbs Manila Rope
Penberthy Water Gauges
Weldolets and Thredolets
Everlasting Blowoff Valves
Ridged Pipe Tools

Allied Supply Company

2068 EAST 37th STREET
LOS ANGELES, CALIFORNIA

HAMER

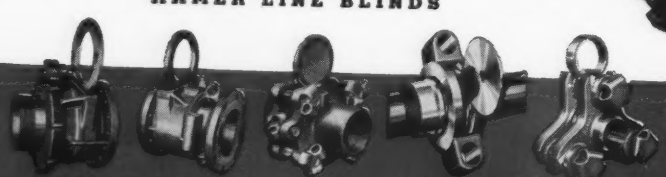
Announces the Appointment of

HOWARD SUPPLY CO.

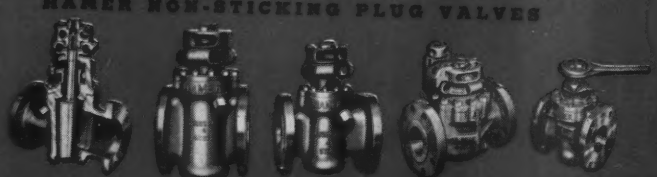
5125 Santa Fe Avenue,
Los Angeles
as California
Stocking Distributors
of
HAMER LINE BLINDS
and
HAMER PLUG VALVES

HAMER 3-BOLT LINE BLIND

HAMER LINE BLINDS



HAMER NON-STICKING PLUG VALVES



HAMER
OIL TOOL COMPANY
2919 GARDENIA AVENUE
LONG BEACH 7, CALIFORNIA

REFINERY OUTPUT, DEMAND AND STOCKS, 1945

All Figures in Thousands of Barrels

(Source: U. S. BUREAU OF MINES)

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
	Total	Da.Av.	Total	Da.Av.	Total	Da.Av.	Total	Da.Av.	Total	Da.Av.	Total	Da.Av.
CRUDE PETROLEUM—All Grades												
Production	27,668	893	25,138	898	28,020	904	27,520	917	29,207	942	28,248	942
Runs to stills	25,279	815	23,547	841	25,950	837	25,833	861	28,677	925	28,147	938
Used for cracking	603	19	646	23	768	25	779	26	619	20	618	21
Shipments (Inc. Alaska and Hawaii)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stocks and stock changes	26,296	.....	26,009	.....	26,084	.....	25,994	.....	24,650	.....	23,298	.....
NATURAL GASOLINE												
Production	1,267	41	1,154	41	1,289	42	1,296	43	1,377	44	1,342	45
Refinery utilization (net)	1,357	44	1,131	40	1,208	39	1,432	48	1,435	46	1,272	42
Shipments (Inc. Alaska and Hawaii)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stocks and stock changes	866	.....	878	.....	947	.....	802	.....	758	.....	795	.....
GASOLINE AND NAPHTHA DISTILLATES												
Production—straight-run	5,523	178	4,984	178	5,719	184	5,674	189	6,371	206	6,189	206
—natural gasoline	1,222	39	1,022	37	1,088	35	1,281	43	1,223	39	1,155	39
—cracking, etc.	3,388	110	3,268	117	3,497	113	4,790	108	3,790	122	3,601	120
—reforming, net	(379)	(12)	(351)	(13)	(400)	(13)	(416)	(14)	(393)	(13)	(331)	(11)
Total	9,754	315	8,923	319	9,904	319	9,775	326	10,991	355	10,614	354
Shipments (Inc. Alaska and Hawaii)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Domestic demand and losses	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total demand and losses	9,423	304	8,811	315	10,306	332	12,170	406	12,456	402	11,954	398
Stocks and stock changes	18,110	.....	19,424	.....	19,585	.....	17,724	.....	17,003	.....	16,258	.....
KEROSENE AND KEROSENE DISTILLATES												
Production	320	10	327	12	366	12	305	13	320	10	369	12
Shipments (Inc. Alaska and Hawaii)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Domestic demand and losses	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total demand and losses	298	10	195	7	285	9	191	6	187	6	200	7
Stocks and stock changes	847	.....	857	.....	805	.....	742	.....	730	.....	746	.....
LUBRICATING OILS AND DISTILLATES												
Production	247	8	314	11	264	9	328	11	367	12	306	10
Receipts from outside territory	112	4	90	3	114	4	115	4	137	4	153	5
Shipments (Inc. Alaska and Hawaii)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Domestic demand and losses	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total demand and losses	458	15	375	13	452	15	447	15	591	19	501	17
Stocks and stock changes	2,127	.....	2,152	.....	2,073	.....	2,065	.....	1,967	.....	1,919	.....
GAS OIL AND DIESEL OIL												
Production—straight-run	4,024	130	3,962	142	4,027	130	3,837	128	4,384	141	4,638	155
—cracked	1,046	34	1,045	37	1,277	41	1,210	40	1,320	43	1,080	36
—reforming	(31)	(1)	(44)	(2)	(52)	(2)	(61)	(2)	(85)	(3)	(80)	(3)
Used for cracking	1,858	60	1,877	67	2,268	73	1,848	62	2,249	73	2,211	74
Net production	3,181	103	3,068	110	2,984	96	3,138	104	3,360	108	3,427	114
Shipments (Inc. Alaska and Hawaii)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Domestic demand and losses	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total demand and losses	3,219	104	2,805	100	2,900	94	2,495	83	2,334	75	1,929	64
Stocks and stock changes	9,319	.....	8,736	.....	8,273	.....	8,405	.....	8,754	.....	9,563	.....
FUEL OIL RESIDUUM												
Production—straight-run	13,969	451	12,652	452	14,121	456	14,047	468	15,697	506	14,952	498
—cracked	7,569	244	7,141	255	7,788	251	7,438	248	7,926	256	7,697	257
—reforming	162	5	156	6	193	6	195	7	221	7	146	5
Used for cracking	10,074	325	9,406	336	10,164	328	9,889	330	10,620	343	10,282	343
Net production	11,626	375	10,543	377	11,938	385	11,791	393	13,224	427	12,513	417
Net transfers from crude	1,884	61	1,517	54	1,602	52	1,647	55	1,731	56	1,812	60
Shipments (Inc. Alaska and Hawaii)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Domestic demand and losses	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total demand and losses	16,899	545	16,630	594	16,102	519	16,088	536	16,114	520	14,708	490
Stocks and stock changes	23,779	.....	20,181	.....	18,308	.....	16,415	.....	16,139	.....	16,667	.....
ASPHALT AND ROAD OIL												
Production	667	22	554	20	607	20	606	20	872	28	913	30
Shipments	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Domestic demand and losses	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total demand and losses	538	17	410	15	465	15	494	16	836	27	939	31
Stocks and stock changes	752	.....	814	.....	886	.....	961	.....	990	.....	981	.....
TOTALS												
Production	29,478	951	26,752	955	29,805	961	29,305	977	31,068	1,002	30,035	1,001
Receipts from outside territory	1,131	36	1,226	44	1,334	43	1,450	48	1,834	59	1,945	65
Total supply	30,609	987	27,978	999	31,139	1,004	30,755	1,025	32,894	1,061	31,980	1,066
Shipments (Inc. Alaska and Hawaii)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Domestic demand and losses	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total demand and losses	33,038	1,066	31,471	1,124	33,132	1,068	34,451	1,148	35,190	1,135	32,555	1,085
Stocks—at refineries	52,509	.....	50,434	.....	49,379	.....	47,243	.....	44,816	.....	46,081	.....
Stocks—elsewhere	31,743	.....	30,325	.....	29,397	.....	27,837	.....	27,968	.....	26,128	.....
Total in territory	84,252	.....	80,759	.....	78,776	.....	75,080	.....	72,784	.....	72,209	.....
Stocks outside territory	2,187	.....	2,379	.....	2,275	.....	2,185	.....	2,458	.....	1,963	.....
TOTALS	86,439	.....	83,138	.....	81,051	.....	77,265	.....	75,242	.....	74,172	.....

REFINERY OUTPUT, DEMAND AND STOCKS, 1945

All Figures in Thousands of Barrels

(Source: U. S. Bureau of Mines)

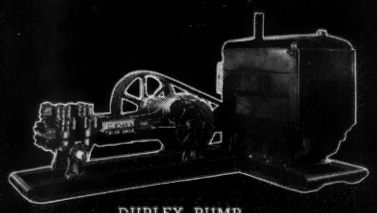
	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		TOTAL—1945	
	Total	Da.Av.	Total	Da.Av.	Total	Da.Av.	Total	Da.Av.	Total	Da.Av.	Total	Da.Av.	Total	Da.Av.
CRUDE PETROLEUM—All Grades														
Production	29,183	941	28,516	920	25,991	866	25,653	828	25,248	842	26,090	842	326,482	894
Runs to still	28,118	907	27,928	901	24,517	817	23,459	757	22,655	755	23,373	754	307,483	842
Used for cracking	776	25	664	21	596	20	433	14	599	20	580	19	7,681	21
Shipments (Inc. Alaska and Hawaii)	375	12	219	7	347	12	328	11	403	13	459	15	3,906	11
Stocks and stock changes	22,710	.....	21,803	.....	21,656	.....	21,804	.....	22,519	.....	23,216	.....	(3,193)	(9)
NATURAL GASOLINE														
Production	1,407	45	1,399	45	1,311	44	1,252	40	1,229	41	1,231	40	15,554	43
Refinery utilization (net)	1,479	48	1,445	47	1,351	45	1,169	38	1,056	35	1,164	39	15,499	42
Shipments (Inc. Alaska and Hawaii)	24	1	2	.....	3	.....	64	2	20	1	122	4	284	1
Stocks and stock changes	650	.....	567	.....	446	.....	463	.....	612	.....	567	.....	(415)	(1)
GASOLINE AND NAPHTHA DISTILLATES														
Production—straight-run	6,133	198	6,280	203	5,354	178	5,377	173	4,491	165	4,829	156	67,374	185
—natural gasoline	1,325	43	1,400	45	1,439	48	1,187	38	1,007	34	1,060	34	14,409	39
—cracking, etc.	4,015	130	3,771	122	3,417	114	2,855	92	3,209	107	3,499	113	41,546	114
—reforming, net	(387)	(12)	(332)	(11)	(260)	(9)	(378)	(12)	(258)	(8)	(147)	(5)	(4,032)	(11)
Total	11,086	358	11,119	359	9,950	332	9,041	291	8,899	297	9,241	298	119,297	327
Shipments (Inc. Alaska and Hawaii)	280	9	529	17	494	17	359	12	388	13	1,264	41	4,870	13
Domestic demand and losses	11,996	387	10,534	353	10,383	346	7,966	257	7,740	258	6,950	224	119,533	327
Total demand and losses	12,276	396	11,463	370	10,877	363	8,325	269	8,128	271	8,214	265	124,403	340
Stocks and stock changes	15,657	.....	15,676	.....	14,799	.....	15,654	.....	16,500	.....	17,635	.....	(212)	(1)
KEROSENE AND KEROSENE DISTILLATES														
Production	432	14	401	13	236	8	409	13	346	12	446	14	4,277	12
Shipments (Inc. Alaska and Hawaii)	21	1	26	1	38	1	46	1	37	1	114	4	463	1
Domestic demand and losses	172	5	152	5	137	5	245	8	263	9	230	7	2,374	7
Total demand and losses	193	6	178	6	175	6	291	9	300	10	344	11	2,837	8
Stocks and stock changes	783	.....	839	.....	810	.....	814	.....	804	.....	826	.....	(151)	.....
LUBRICATING OILS AND DISTILLATES														
Production	392	13	279	9	375	13	263	8	291	10	352	11	3,778	10
Receipts from outside territory	137	4	139	4	118	4	123	4	106	4	99	3	1,443	4
Shipments (Inc. Alaska and Hawaii)	46	2	52	2	34	1	48	2	66	2	79	2	564	2
Domestic demand and losses	475	15	480	15	389	13	313	10	267	9	269	9	4,778	13
Total demand and losses	521	17	432	17	423	14	361	12	333	11	348	11	5,342	15
Stocks and stock changes	1,922	.....	1,082	.....	1,851	.....	1,871	.....	1,937	.....	2,035	.....	(198)	(1)
GAS OIL AND DIESEL OIL														
Production—straight-run	4,656	150	4,400	142	3,874	129	3,534	114	3,812	127	4,374	141	49,522	136
—cracked	1,399	45	1,457	47	1,608	45	1,249	40	1,348	45	1,618	52	15,657	43
—reforming	(112)	(4)	(37)	(1)	(112)	(4)	(31)	(1)	(121)	(4)	(121)	(4)	(703)	(2)
Used for cracking	2,535	82	2,272	73	2,606	87	1,958	63	2,100	70	2,544	82	26,326	72
Net production	3,408	110	3,548	114	2,764	92	2,794	90	2,939	98	3,327	107	37,956	104
Shipments (Inc. Alaska and Hawaii)	217	7	334	11	141	5	124	4	367	12	284	9	2,802	8
Domestic demand and losses	1,617	52	2,076	67	2,137	71	2,217	72	2,820	94	3,331	108	28,545	78
Total demand and losses	1,834	59	2,410	78	2,278	76	2,341	76	3,187	106	3,615	117	31,347	86
Stocks and stock changes	10,540	.....	11,013	.....	10,549	.....	10,282	.....	9,359	.....	8,136	.....	(2,026)	(6)
FUEL OIL RESIDUUM														
Production—straight-run	14,848	479	14,918	481	13,265	442	12,621	407	12,075	403	12,542	405	165,707	454
—cracked	7,568	244	7,658	247	7,115	237	6,392	206	6,910	230	7,049	227	88,251	242
—reforming	196	6	161	5	186	6	167	5	187	6	112	4	2,082	6
Used for cracking	10,232	330	10,532	340	9,545	318	8,679	280	9,222	307	9,606	310	118,251	324
Net production	12,380	399	12,205	394	11,021	367	10,501	338	9,950	332	10,097	326	137,789	378
Net transfers from crude	1,701	55	1,919	62	1,167	39	1,521	49	1,180	39	1,263	41	18,944	52
Shipments (Inc. Alaska and Hawaii)	698	22	637	21	495	17	577	19	546	18	919	30	6,616	18
Domestic demand and losses	12,372	399	12,803	413	11,491	383	13,159	424	12,000	400	13,917	449	169,539	464
Total demand and losses	13,070	421	13,440	434	11,986	400	13,736	443	12,546	418	14,836	479	176,155	483
Stocks and stock changes	18,642	.....	20,312	.....	21,623	.....	20,806	.....	20,145	.....	17,832	.....	(8,215)	(23)
ASPHALT AND ROAD OIL														
Production	869	28	824	27	844	28	839	27	599	20	515	17	8,709	24
Shipments	20	1	38	1	27	1	16	1	21	1	27	1	221	1
Domestic demand and losses	886	28	958	31	772	26	719	23	493	16	348	11	7,786	21
Total demand and losses	906	29	996	32	799	27	735	24	514	17	375	12	8,007	22
Stocks and stock changes	935	.....	763	.....	773	.....	807	.....	804	.....	808	.....	(153)	.....
TOTALS														
Production	31,042	1,001	30,364	979	27,709	924	27,331	882	26,937	898	27,839	898	347,657	953
Receipts from outside territory	1,965	63	1,943	63	603	20	448	14	381	13	450	15	14,710	40
Total supply	33,007	1,064	32,307	1,042	28,312	944	27,779	896	27,318	911	28,289	913	362,367	992
Shipments (Inc. Alaska and Hawaii)	1,690	54	1,844	59	1,591	53	1,572	51	1,857	62	3,278	105	19,963	54
Domestic demand and losses	29,678	957	29,485	951	27,026	901	26,240	846	25,184	839	26,770	864	356,079	976
Total demand and losses	31,068	1,011	31,329	1,010	28,617	954	27,812	897	27,041	901	30,048	969	376,042	1,030
Stocks—at refineries	47,212	.....	46,299	.....	47,177	.....	47,688	.....	47,471	.....	44,918	.....	(11,104)	(30)
Stocks—elsewhere	26,636	.....	28,527	.....	27,344	.....	26,860	.....	27,294	.....	28,088	.....	(2,571)	(7)
Total in territory	73,848	.....	74,826	.....	74,521	.....	74,488	.....	74,765	.....	73,006	.....	(13,675)	(37)
Stocks outside territory	1,945	.....	2,139	.....	2,032	.....	2,015	.....	1,914	.....	1,806	.....	(494)	(1)
TOTALS	75,793	.....	76,965	.....	76,553	.....	76,503	.....	76,679	.....	74,812	.....	(14,169)	(38)

We are pleased to Announce the appointment of

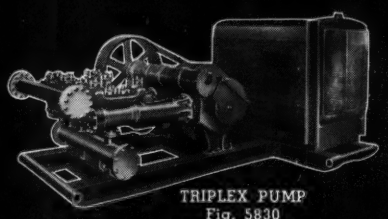
HOWARD SUPPLY COMPANY

5125 Santa Fe Ave. ● Los Angeles 11, California

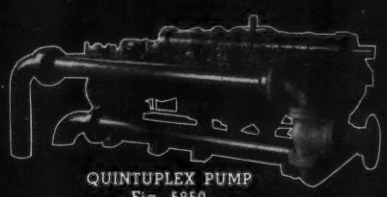
as EXCLUSIVE DISTRIBUTOR for California



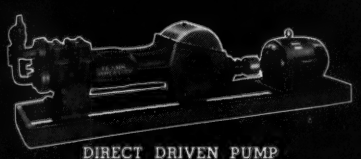
DUPLEX PUMP
Fig. 2070
7" x 10" V-BELT



TRIPLEX PUMP
Fig. 5830
5¾" x 8" V-BELT



QUINTUPLEX PUMP
Fig. 5850
5¾" x 8"



DIRECT DRIVEN PUMP
Fig. 1324
4" x 6"

HOWARD SUPPLY COMPANY

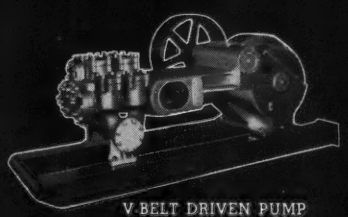
IS NOW

Exclusive Distributor

FOR

WHEATLEY

IN CALIGORNIA



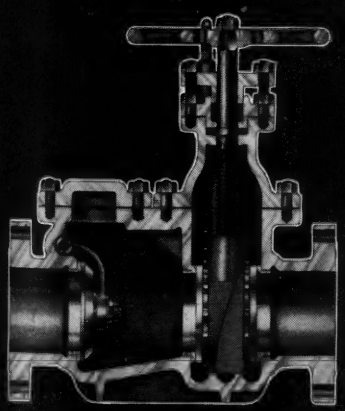
V-BELT DRIVEN PUMP
Fig. 2170

TWIN STRAINERS
4" to 12"

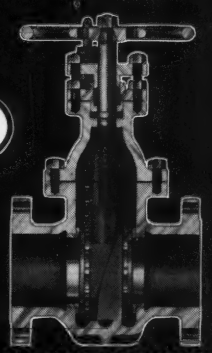
SYNTHETIC RUBBER SEAL
CHECK VALVES
2" to 18"

These are only a few of our many pipe line products. They are made in various sizes and are adaptable to many installations. Our aim is to be the one company where anything for pipe line transportation can be purchased. Please let us have your requirements.

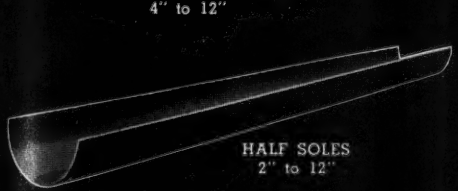
W WHEATLEY



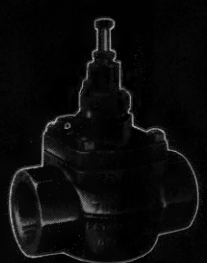
RACK TYPE TWIN VALVES
4" to 12"



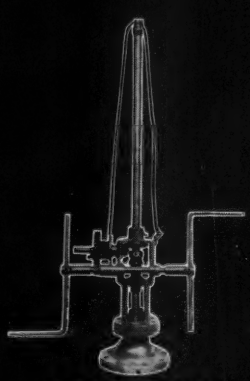
RACK TYPE GATE VALVES
4" to 12"



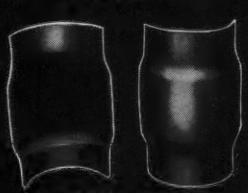
HALF SOLES
2" to 12"



PLUG VALVES
2" to 6"
Non-Lubricated
Mechanically Operated



TAPPING MACHINES



WELDING SLEEVES
2" to 12"

Stocks carried at Los Angeles and Oakland, California ● Stocks and Service in all active fields

FRANK WHEATLEY PUMP & VALVE MFR. TULSA, OKLAHOMA

CALIFORNIA NATURAL GASOLINE PLANT OPERATIONS 1945

SAN JOAQUIN VALLEY	JANUARY Gas Treated (M Cu. Ft.)	JANUARY Nat. Gas. Produced (Gallons)	FEBRUARY Gas Treated (M Cu. Ft.)	FEBRUARY Nat. Gas. Produced (Gallons)	MARCH Gas Treated (M Cu. Ft.)	MARCH Nat. Gas. Produced (Gallons)	APRIL Gas Treated (M Cu. Ft.)	APRIL Nat. Gas. Produced (Gallons)	MAY Gas Treated (M Cu. Ft.)	MAY Nat. Gas. Produced (Gallons)	JUNE Gas Treated (M Cu. Ft.)	JUNE Nat. Gas. Produced (Gallons)
Belridge	1,661,660	938,761	1,444,145	911,055	1,512,033	887,398	1,514,876	951,269	1,533,494	989,164	1,454,835	977,588
Kettleman Hills	7,621,960	8,894,190	6,804,878	8,138,081	7,474,120	9,232,984	7,244,257	8,840,883	7,371,130	9,428,670	6,996,341	9,127,457
Midway Sunset	1,104,732	1,834,384	1,015,035	1,692,254	1,153,437	1,922,711	1,200,659	2,164,294	1,354,765	2,679,895	1,383,998	2,756,849
Mountain View	62,311	95,950	46,499	87,131	48,467	92,180	68,781	101,846	64,211	114,088	58,845	108,938
Miscellaneous	6,819,950	5,557,242	6,119,556	5,168,628	6,451,949	5,644,079	6,463,650	6,091,291	7,032,084	6,632,018	6,933,084	6,703,894
COASTAL DISTRICT												
Elwood	104,885	292,643	96,345	259,130	106,987	293,453	92,440	272,180	99,876	287,683	102,214	297,274
Santa Maria	879,224	1,059,801	793,895	998,810	891,858	1,041,646	900,894	999,240	897,449	1,080,225	859,223	1,070,395
Ventura Avenue	4,718,481	5,600,411	4,248,435	5,081,344	4,763,453	5,892,697	4,677,323	6,022,637	4,964,259	6,257,619	4,636,243	5,920,350
Miscellaneous	1,711,741	1,748,285	1,620,439	1,653,549	1,899,661	2,013,460	1,938,313	2,102,090	1,942,489	2,039,689	1,856,506	2,095,447
LOS ANGELES BASIN												
Brea-Olinda-Coyote	1,105,254	3,006,405	1,009,401	2,690,072	1,107,564	2,998,814	1,157,169	3,063,981	1,264,670	3,292,089	1,197,275	3,173,031
Dominguez	1,321,951	2,772,121	1,176,617	2,513,901	1,321,244	2,759,152	1,270,347	2,745,709	1,308,545	2,866,998	1,248,339	2,775,036
Huntington Beach	1,121,576	3,338,796	1,033,963	3,036,060	1,164,694	3,519,910	1,154,774	3,380,729	1,236,001	3,588,877	1,392,953	3,473,147
Long Beach	1,942,611	6,265,233	1,765,746	5,482,055	1,948,494	6,095,959	1,899,297	5,987,206	1,964,917	6,102,019	1,704,226	5,885,093
Montebello	269,459	689,452	232,320	595,472	251,962	639,222	243,584	637,827	254,345	672,818	233,956	608,753
Richfield	161,007	821,722	148,253	747,936	164,090	833,603	168,362	941,103	176,271	981,624	175,545	952,157
Rosecrans	698,602	1,007,463	628,814	918,901	588,114	857,491	647,937	1,023,803	668,324	1,075,110	629,201	1,003,728
Santa Fe Springs	1,059,335	3,767,184	953,661	3,470,594	1,133,252	3,992,295	1,022,867	3,690,069	1,046,091	3,771,788	1,042,220	3,610,442
Torrance	143,956	477,278	132,615	423,823	145,132	467,010	146,917	460,668	157,569	480,389	154,627	476,352
Miscellaneous	3,023,387	5,065,247	2,765,523	4,597,279	3,045,234	4,972,085	2,932,688	4,973,620	3,092,561	5,490,153	3,015,845	5,334,569
TOTALS (All Fields)	35,532,082	53,232,568	32,036,140	48,466,075	35,171,745	54,156,149	34,745,135	54,450,445	36,429,051	57,830,916	35,075,476	56,350,500

DISTRIBUTION

	JANUARY Gallons	JANUARY Gallons	FEBRUARY Gallons	FEBRUARY Gallons	MARCH Gallons	MARCH Gallons	APRIL Gallons	APRIL Gallons	MAY Gallons	MAY Gallons	JUNE Gallons	JUNE Gallons
Stock Beginning of Month	1,249,652	.....	1,411,956	.....	1,435,273	.....	1,388,607	.....	1,597,691	.....	1,395,937	.....
Production during Month	53,232,568	.....	48,466,075	.....	54,156,149	.....	54,450,445	.....	57,830,916	.....	56,350,500	.....
Delivered to Refineries	.....	53,033,493	.....	48,395,170	.....	54,146,904	.....	54,271,494	.....	57,952,405	.....	56,162,347
Blended at Plants for Prod. of Motor Fuel	.....	8,870	.....	7,899	.....	9,608	.....	8,031	.....	7,840	.....	7,369
Gains or (Losses)	.....	27,901	.....	39,689	.....	46,303	.....	38,164	.....	72,425	.....	105,928
Stocks End of Month	.....	1,411,956	.....	1,435,273	.....	1,388,607	.....	1,597,691	.....	1,395,937	.....	1,470,793
TOTALS	54,482,220	54,482,220	49,878,031	49,878,031	55,591,422	55,591,422	55,839,052	55,839,052	59,428,607	59,428,607	57,746,437	57,746,437

LIQUEFIED PETROLEUM GAS PRODUCTION AT NATURAL GASOLINE PLANTS

	JANUARY Gallons	JANUARY Barrels	FEBRUARY Gallons	FEBRUARY Barrels	MARCH Gallons	MARCH Barrels	APRIL Gallons	APRIL Barrels	MAY Gallons	MAY Barrels	JUNE Gallons	JUNE Barrels
Liquefied Petroleum Gas Production	15,427,107	367,312	13,195,000	314,167	14,731,000	350,738	13,951,000	332,167	13,207,500	314,452	12,478,000	297,095
Motor Fuel Production	1,163	28	1,126	27	9,608	229	8,031	191	7,840	187	7,369	175

CALIFORNIA NATURAL GASOLINE PLANT OPERATIONS 1945

	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		1945 TOTAL	
	Gas Treated (M Cu. Ft.)	Nat. Gas. Produced (Gallons)	Gas Treated (M Cu. Ft.)	Nat. Gas. Produced (Gallons)	Gas Treated (M Cu. Ft.)	Nat. Gas. Produced (Gallons)	Gas Treated (M Cu. Ft.)	Nat. Gas. Produced (Gallons)	Gas Treated (M Cu. Ft.)	Nat. Gas. Produced (Gallons)	Gas Treated (M Cu. Ft.)	Nat. Gas. Produced (Gallons)	Gas Treated (M Cu. Ft.)	Nat. Gas. Produced (Gallons)
SAN JOAQUIN VALLEY														
Belridge	1,474,452	1,050,140	1,475,511	1,068,180	1,424,572	1,042,546	1,473,253	972,556	1,395,770	815,425	1,468,479	814,476	17,833,080	11,418,558
Kettleman Hills	7,157,790	9,413,162	7,157,242	9,318,110	6,655,433	8,645,171	6,769,158	8,511,613	6,379,708	7,655,037	6,887,562	7,702,808	84,519,579	104,908,166
Midway Sunset	1,402,069	3,039,115	1,410,030	2,940,550	1,301,330	2,735,199	1,252,570	2,488,805	1,166,520	2,263,041	1,183,680	2,182,517	14,928,825	28,699,614
Mountain View	67,469	129,820	60,695	136,581	47,492	96,715	41,865	113,604	37,527	111,454	70,400	149,276	674,562	1,337,583
Miscellaneous	7,241,359	7,214,004	7,193,328	7,134,438	6,523,017	6,356,030	6,025,059	6,054,399	5,750,229	5,482,937	5,783,894	5,296,167	78,337,159	73,335,127
COASTAL DISTRICT														
Elwood	100,590	303,531	101,173	314,685	99,540	294,626	102,115	298,562	119,551	303,384	115,136	312,804	1,240,852	3,529,955
Santa Maria	865,479	1,113,520	863,105	1,159,030	829,974	1,174,918	790,730	1,081,534	833,924	1,154,750	841,836	1,131,545	10,247,591	13,065,414
Ventura Avenue	5,153,458	6,524,022	5,171,373	6,396,045	4,520,280	5,689,303	4,487,588	5,619,494	4,471,647	5,530,354	4,468,287	5,543,199	56,280,827	70,077,475
Miscellaneous	1,929,543	2,225,437	2,066,129	2,338,800	1,984,211	2,224,103	1,914,311	2,163,031	1,923,818	2,059,747	2,026,390	2,110,296	22,813,551	24,773,934
LOS ANGELES BASIN														
Brea-Olinda-Coyote	1,265,726	3,224,845	1,294,793	3,222,645	1,231,661	3,026,051	1,194,756	3,027,296	1,141,664	3,177,949	1,188,719	3,153,115	14,158,652	37,056,293
Dominguez	1,234,914	2,836,048	1,248,808	2,825,294	1,197,012	2,757,101	1,106,473	2,267,314	1,195,032	2,746,993	1,196,759	2,738,119	14,826,041	32,603,786
Huntington Beach	1,260,391	3,671,144	1,275,998	3,776,097	1,246,236	3,619,204	1,182,709	3,551,154	1,178,684	3,461,679	1,213,791	3,542,583	14,461,770	41,959,380
Long Beach	1,975,645	6,064,878	1,959,999	6,056,707	1,790,464	5,704,395	1,720,770	5,388,959	1,680,749	5,582,231	1,726,644	5,710,074	22,079,562	70,324,809
Montebello	233,165	599,836	233,347	624,710	240,870	613,217	200,230	458,402	248,515	584,670	235,922	543,610	2,877,675	7,267,989
Richfield	188,650	985,980	189,218	960,149	181,068	912,275	171,600	918,386	166,571	973,660	166,275	980,246	2,056,910	11,008,841
Rosecrans	662,791	1,074,072	649,176	1,073,724	625,059	996,276	572,657	900,994	610,122	982,860	607,684	1,018,982	7,588,481	11,933,404
Santa Fe Springs	1,073,801	3,678,432	1,057,925	3,572,889	1,011,282	3,468,073	818,478	3,010,954	948,585	3,360,399	967,134	3,438,237	12,134,631	42,831,356
Torrance	160,470	491,466	163,265	493,465	157,816	471,677	155,894	968,150	151,015	439,028	156,247	442,938	1,825,523	6,092,244
Miscellaneous	3,103,067	5,454,833	3,002,018	5,332,742	3,066,410	5,253,306	3,116,851	4,772,613	2,903,575	4,916,405	2,979,976	4,889,057	36,047,135	61,051,909
TOTALS (All Fields)	36,550,829	59,094,285	36,573,133	58,744,841	34,133,727	55,080,186	33,097,037	52,567,820	32,303,206	51,602,003	33,284,815	51,700,049	414,932,406	653,275,837

DISTRIBUTION

	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		1945 TOTAL	
	Gallons	Gallons	Gallons	Gallons	Gallons	Gallons	Gallons	Gallons	Gallons	Gallons	Gallons	Gallons	Gallons	Gallons
Stocks Beginning of Month	1,470,793	.....	1,463,545	.....	1,842,545	.....	1,617,679	.....	1,591,525	.....	1,437,628	.....	.....	.....
Production during Month	59,094,285	.....	58,744,841	.....	55,080,186	.....	52,567,820	.....	51,602,003	.....	51,700,049	.....	653,275,837	.....
Delivered to Refineries	.....	58,990,288	.....	58,235,258	.....	55,193,643	.....	52,516,218	.....	51,707,059	.....	51,644,209	.....	652,248,488
Blended at Plants for Prod. of Motor Fuel	.....	6,614	.....	7,034	.....	6,437	.....	7,135	.....	8,181	.....	9,225	.....	94,243
Gains or (Losses)	.....	104,631	.....	123,549	.....	104,972	.....	70,621	.....	40,660	.....	25,346	.....	800,189
Stocks End of Month	.....	1,463,545	.....	1,842,545	.....	1,617,679	.....	1,591,525	.....	1,437,628	.....	1,458,897	.....	.....
TOTALS	60,565,078	60,565,078	60,208,386	60,208,386	56,922,731	56,922,731	54,185,499	54,185,499	53,193,528	53,193,528	53,137,677	53,137,677	.....	.....

LIQUEFIED PETROLEUM GAS PRODUCTION AT NATURAL GASOLINE PLANTS

	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		1945 TOTAL	
	Gallons	Barrels	Gallons	Barrels	Gallons	Barrels	Gallons	Barrels	Gallons	Barrels	Gallons	Barrels	Gallons	Barrels
Liquefied Petroleum Gas Production	12,779,914	304,284	13,032,144	310,289	12,307,484	293,035	13,077,676	311,373	14,578,306	347,103	16,639,951	396,189	165,405,082	3,938,204
Motor Fuel Production	6,614	157	7,034	167	6,437	153	7,135	170	8,181	195	9,225	220	79,763	1,899

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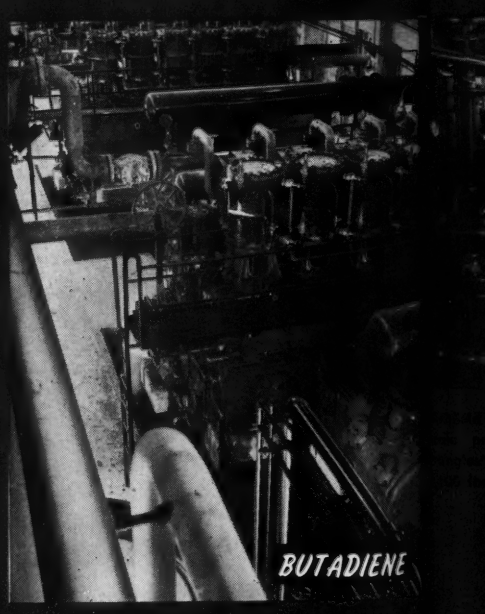
Each of these plants is a credit to the engineering brains of the petroleum industry, and each one demonstrates the oft proved economy and dependability of Clark "Angles".



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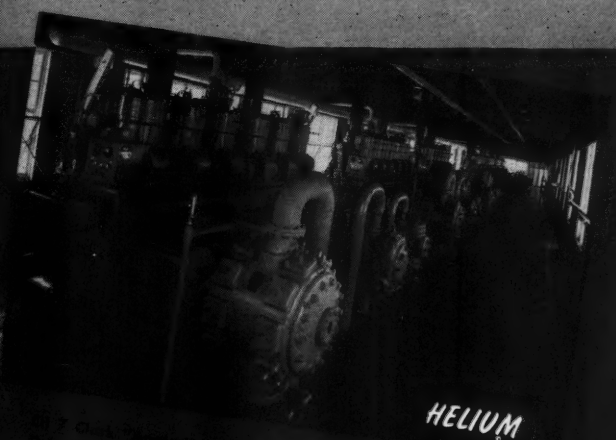


HELIUM

PRESSURE MAINTENANCE

PIPE LINE

CLARK "ANGLE" COMPRESSORS

GAS • STEAM • DIESEL

CALIFORNIA DRY GAS OPERATIONS 1945

Active Producing Wells*

FIELDS	JAN	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
Afton												
Alpaugh												
Bowerbank	3	3	3	1					2	2	2	3
Buena Vista Hills	18	14	23	18	11	9	6	7	6	7	8	19
Buena Vista Lake	2	2	2	2	1		1	1	1	1		
Buttonwillow		9	7	7	6	5	6	6	7	8	8	10
Cache Slough												
Chico												
Coalinga												
Coles Levee North	2	2	2	2	2	2	3	3	3	3	3	1
Coles Levee South	3	3	3	3	2	2	2	2	2	3	3	3
Dixon South										1	1	
Elk Hills												
El Segundo	1	1	1	1	1	1	1	1	1	1	1	2
Fairfield Knolls	1	1	1	1	1	1	1	1	1	1	1	1
Gill Ranch												
Goleta	5	5	3	5	1				3	4	4	
Hamilton City								1				
Honker										1	1	1
Huntington Beach												
Kirby Hills					1							
Main Prairie												
Marysville Buttes	4	4	4	4	4	4	4	4	4	4	4	4
McDonald Island	5	5	5	5	6	6	5	6	6	6	6	5
Midway-Sunset												
Montebello												
Millar												
Paloma												
Rio Vista	76	83	86	90	94	94	97	100	102	106	108	96
Rio Vista North												
Roberts Island	1	1	1	1	1	1	1	1	1	1	1	1
Santa Fe Springs	1	1	1	1	1	1	1	1	1	1	1	1
Semi Tropic	13	13	11	4	1			1	2	3	3	12
Suisun										1	1	1
Thornton										1	1	1
Tompkins Hill	1	2	2	2	2	2	2	2	2	3	3	3
Tracy	1	3	2	3	2	1			1	1	3	3
Trico	27	27	16	20				1	3	5	5	24
Vernalis	2	2	2	2	2	2	2	2	2	2	2	2
Wilmington												
Willows	1	1	1	1	1	1	1	1	1	1	1	1
TOTAL	175	182	176	173	140	132	133	141	151	167	171	194

*—Blank spaces indicate data not available.

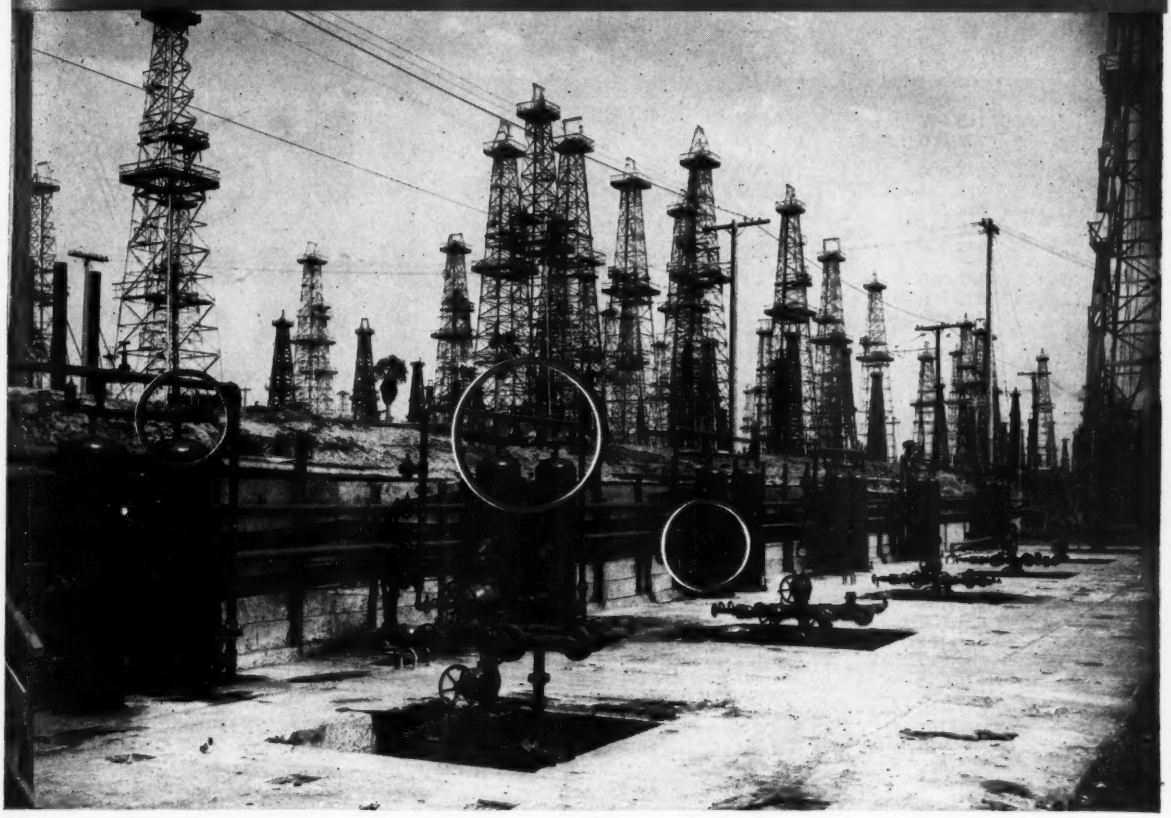
CALIFORNIA DRY GAS OPERATIONS 1945

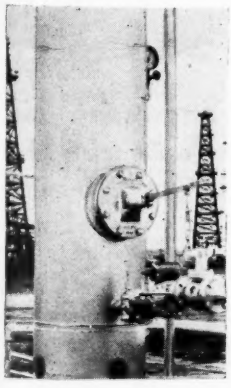
Gas Production M.C.F.*

FIELDS	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
Afton												
Alpaugh												
Bowerbank											116,168	140,362
Buena Vista Hills					68,860	64,757	55,112	55,245	57,565	56,697	116,295	168,260
Buena Vista Lake	30,118	40,266	40,629	14,589								
Buttonwillow	114,993	57,207	148,616	193,239	100,917	21,868	24,409	27,958	18,702	38,523	47,288	76,421
Cache Slough					1,800	245	1,264	1,250	950	240	1,500	
Chico												
Coalinga	220,163	175,908	278,432	159,161								
Coles Levee				316,342	336,198	300,245	294,326	253,315	234,694	223,595	230,109	258,585
Dixon South												
Elk Hills												
El Segundo	116,066	105,086	115,535	106,798	119,900	116,276	119,951	119,314	115,274	112,963	110,027	91,070
Fairfield									14,534	31,276	28,518	27,973
Gill Ranch					86,285	99,832	63,025	68,643	89,483	146,411	245,603	298,162
Goleta												
Hamilton City												
Honker							108					
Huntington Beach												
Kirby Hills							13,763a					
Main Prairie							6,575		1,060		990	
Marysville Buttes	50,465	46,956	51,379	54,998	49,716	53,433	71,141	64,259	56,860	59,384	48,701	48,091
McDonald Island	642,557	340,796	372,583	551,755	502,477	332,060	854,740	804,144	830,223	818,578	786,731	855,292
Midway-Sunset	238,000	143,577	121,809	65,442								
Millar										260		
Montebello				5,346								
Paloma					7,460	3,992	4,619	2,346	2,664			
Ord Bend					2,772	2,367	2,069	3,286	33,259	55,968	100,728	109,122
Rio Vista	17,477,143	14,503,115	16,515,236	13,212,417	12,909,493	10,649,115	10,665,673	12,253,816	11,822,234	12,320,525	13,041,923	14,209,643
Rio Vista North												
Roberts Island					26,187	18,754	44,783	41,749	42,976	43,550	42,251	43,572
Santa Fe Springs					4,568	6,242	5,705	5,447	4,426	2,679	1,378	1,032
Semi-Tropic	392,264	210,377	331,382	12,411	660	508				86,051	161,714	322,864
Suisun							284					
Thornton										580	1,760	1,070
Tompkins Hill					91,092	76,140	86,407	86,530	76,413	66,991	44,356	97,383
Tracy	6,817	4,620	38,273	90	152,934	148,650	93	93	90	93	120	56,754
Trico	920,848	787,696	1,120,627	296,269		3,957	145,578	94,561	32,308	471,673	747,869	645,384
Vernalis					99,765	96,431	98,331	99,433	95,021	97,917	95,781	98,337
Willows												
Wilmington	9,891	9,896	10,683	14,032								
Others	585,434	368,586	457,019	235,346								
TOTAL	20,804,759	16,794,086	19,602,203	15,238,235	14,561,174	11,985,872	12,557,956	13,981,389	13,528,736	14,633,954	15,969,810	17,549,377

a—Total January-July.

OIL PRODUCERS RELY ON *RELIANCE* FOR MAXIMUM OUTPUT





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COMPARATIVE VALUE OF OIL AND GAS IN CALIFORNIA

Year to and Incl.	Petroleum Barrels	Petroleum Value	Natural Gas M Cubic Feet	Natural Gas Value
1875	175,000	$ 472,500	.....	.....
1876	12,000	30,000	.....	.....
1877	13,000	29,250	.....	.....
1878	15,227	30,454	.....	.....
1879	19,858	39,716	.....	.....
1880	40,552	60,828	.....	.....
1881	99,862	124,828	.....	.....
1882	128,636	257,272	.....	.....
1883	142,857	285,714	.....	.....
1884	262,000	655,000	.....	.....
1885	325,000	750,750	.....	.....
1886	377,145	870,205	.....	.....
1887	678,572	1,357,144	.....	.....
1888	690,333	1,380,666	12,000	$ 10,000
1889	303,220	368,048	14,500	12,680
1890	307,360	384,200	41,250	33,000
1891	323,600	401,264	39,000	30,000
1892	385,049	561,333	75,000	55,000
1893	470,179	608,092	84,000	68,500
1894	783,078	1,064,521	85,080	79,072
1895	1,245,339	1,000,238	110,800	112,000
1896	1,257,780	1,180,793	131,100	111,457
1897	1,911,569	1,918,269	71,300	62,657
1898	2,249,088	2,376,420	111,165	74,424
1899	2,677,875	2,660,793	115,110	95,000
1900	4,329,950	4,152,928	40,566	34,578
1901	7,710,315	2,961,102	120,800	92,034
1902	14,356,910	4,692,189	120,968	99,443
1903	24,340,839	7,313,271	120,134	75,237
1904	29,736,003	8,317,809	144,437	91,035
1905	34,275,701	9,007,820	148,345	102,479
1906	32,624,000	9,238,020	168,175	109,489
1907	40,311,171	16,783,943	169,991	114,759
1908	48,306,910	26,566,181	842,883	474,584
1909	58,191,723	32,398,187	1,148,467	616,932
1910	77,697,568	37,689,542	10,579,933	1,676,367
1911	84,648,157	40,552,088	5,000,000	491,859
1912	89,689,250	41,868,344	12,600,000	940,076
1913	98,494,532	48,578,014	14,210,836	1,053,292
1914	102,881,907	47,487,109	16,529,963	1,049,470
1915	91,146,620	43,503,837	21,992,892	1,706,480
1916	90,262,557	57,421,334	28,134,365	2,871,751
1917	95,396,309	86,976,209	44,343,020	2,964,922
1918	99,731,177	127,459,221	46,373,052	3,289,524
1919	101,182,962	142,610,563	52,173,503	4,041,217
1920	103,377,361	178,394,937	58,567,772	3,898,286
1921	112,599,860	203,138,225	67,043,797	4,704,678
1922	138,468,222	173,381,265	103,628,027	6,990,030
1923	262,875,690	242,731,309	240,405,397	15,661,433
1924	228,933,471	274,652,874	209,021,596	15,153,140
1925	232,492,147	330,609,829	194,719,924	15,890,082
1926	224,673,281	345,546,677	214,549,477	19,465,347
1927	231,195,774	260,735,498	224,668,940	20,447,294
1928	231,811,465	229,998,680	260,887,116	22,260,947
1929	292,534,221	321,366,863	400,129,201	29,067,546
1930	227,328,988	271,699,046	315,513,952	24,559,840
1931	188,270,605	141,835,723	344,959,920	16,690,695
1932	177,745,286	142,890,247	284,168,872	16,272,061
1933	172,139,362	143,063,972	271,743,544	15,403,514
1934	174,721,282	159,529,671	263,207,517	14,408,761
1935	205,979,855	179,335,311	302,447,193	17,680,661
1936	214,773,315	211,667,185	298,922,708	18,585,970
1937	238,558,562	237,845,872	323,883,714	19,859,865
1938	249,395,763	258,354,343	332,358,439	22,310,755
1939	224,253,110	226,358,856	340,754,804	21,551,646
1940	223,294,805	207,479,800	352,871,945	20,618,893
1941	229,665,435	218,839,352	378,173,737	21,522,445
1942	247,491,289	242,481,545	413,180,942	25,698,052
1943	284,145,702	289,323,406	443,219,847	28,046,729
1944	311,717,804	330,659,802	467,743,258	31,797,418
1945*	328,144,000	347,832,000	544,543,000	36,484,000
TOTAL	7,220,550,805	$6,984,198,294	7,908,084,294	$528,260,054

*—Preliminary estimate.

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Field Development

PREPARED BY CALIFORNIA OIL WORLD NEWS SERVICE

Los Angeles Basin

Athens Project Rigging Derrick

Near the northwest corner of 127th St. and Figueroa Ave., G. M. Russell is rigging derrick to drill well No. 3-21 in the Athens field. Contract was let to Camay Drilling Co.

Leffingwell Tests Drilling On Down

Standard Oil Co. is drilling Stern Comm. No. 2-1 in Sec. 7-3s-10w in the Leffingwell area in shale below 8900 ft. Behnke No. 1 in Sec. 14-3s-11w has drill pipe stuck and has spotted with oil at 9544 ft. in an effort to free. Total depth is 10,273 ft. Nearer La Habra, Gerrard Comm. No. 1 in Sec. 11-3s-11w is making headway in shale at 6225 ft.

Del Valle Expanded

Universal Consolidated Oil Co. is about to complete Aguirre No. 1 in the Holser Canyon sector of the Del Valle area. Bottomed at a total depth of 3857 ft., after topping oil sand at 2987 ft., all signs indicate a westerly widening of the producing area has been achieved. Location for a second well has been made in the section. It is Sec. 13-4n-18w.

Aliso Job Replugging

In the Aliso Canyon area of Los Angeles County, Standard Oil Co. is fishing tubing in Wigdal No. 1 in Sec. 19-3n-16w, preparatory to replugging. Total depth is 9525 ft., with plug at 9370 ft. Tide Water Associated Oil Co. is building rig for Standard-Sesnon No. 1-8 in the proved portion of the field. Porter No. 31 is redrilling at 4017 ft. to black oil zone.

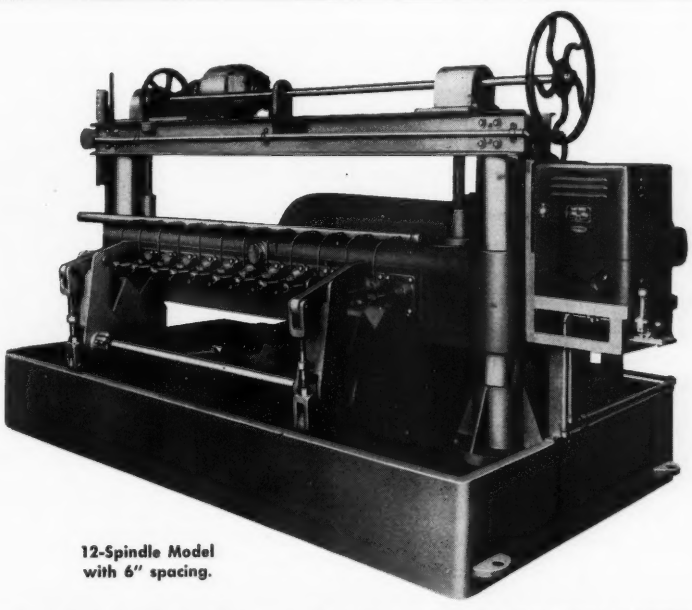
Dominguez Well Grading Ground

Shell Oil Co., Inc. is making ready to start work on its Reyes No. 143 in the Dominguez field. Union Oil Co. is drilling Callender No. 99 below 2800 ft. Callender No. 95 has gun-perforated between 4074-4152 ft., after plugging at 4155 ft. Total depth is 4464 ft.

Torrance Well Gives Little Oil

Pennell Oil Co. has finished Brown No. 1 in the Torrance field at a depth of 3425 ft., for an initial yield of 15 barrels of oil a day, cutting 50 per cent. Output subsequently increased to 30 barrels of 19 gravity clean oil daily.

Wood-Callahan Oil Co. has foundations poured for No. 7, No. 8 and No. 10. V. R. G. Wilbur is rigging to redrill Ferguson No. 2. Jergins Oil Co. is fishing drill pipe in Tor-



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rance No. 1, top of which is at 3985 ft. Bottom is 4278 ft.

Beach Wildcat Gets Good Flow

Hiawatha Exploration Co. has finished Atha No. 1 in Sec. 13-6s-11w in the Huntington Beach area at a total depth of 3078 ft., flowing 165 barrels daily of 23.5 gravity crude oil. Atha No. 2 is drilling below 1000 ft. in sand and shale.

The lease is owned by George Atha. Atha recently returned from a tour of oil centers in Texas, Louisiana, Mississippi and Florida.

Wilmington Drill Program

Long Beach Oil Development Co. has filed notice of intention to drill 13 new wells on its X, Y and W leases in the channel area of the Wilmington field.

Fishing Job At Costa Mesa

While preparing cement, the 6⅝-in. casing parted at 800 ft. in Silver Divide Mines Co.'s Sierra No. 2 in Sec. 23-6s-10w in the Costa Mesa area, with the balance dropping to bottom at 3904 ft. Operator is preparing to fish.

Coyote Well Fish Cutters

Apex Petroleum Corp., Ltd. is fishing bit cutters in No. 3 in the East Coyote field, after going to an original depth of 4089 and redrilling to 3960 ft. Hathaway Co.'s Page No. 1 is redrilling at 2965 ft.

East Los Angeles Adds New Drilling

C. G. Willis has started work on a new exploratory hole near the intersection of Date and Vail Aves. in the East Los Angeles area in Sec. 15-2-12. Known as Simons No. 1, the well will drill one-half mile south of Richfield's duster on the Simons property. C. C. M. O. has obtained an o.k. on its water shut-off in the Bandini No. 1, with bottom at 10,058 ft. Richfield's Keller No. 1 is drilling below 6100 ft. Vail No. 2 is rigging up. Shell Oil Co. Inc. is rigging up to deepen Pansini No. 1 from present depth of 8195 ft.

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Coastal and Northern District

Tehama County Try Preparing

North Counties Development Co. is preparing to drill well No. 1 in the Blossom area of Tehama County, some 320 ft. north and a like distance east of the southwest corner of Sec. 29-27n-5w. Nearest city of consequence to the area to be questioned is Red Bluff.

In the Paskenta area, Northern Oil and Gas Co. is about ready to resume drilling operations at present depth of 1904 ft. in Tiger No. 1 in Sec. 1-23n-7w. Operations were suspended some months ago due to torrential rains.

Moss Landing Test Fishing Drill Pipe

Bayside Development Co. evidently has been unable to loosen stuck drill pipe on bottom of Vierra No. 1 in Sec. 7-13s-2e in the Moss Landing area of Monterey County, after circulating with oil. Total depth is 7926 ft. In the San Ardo area, C.C.M.O. has started the drill in No. 6-G-1 in Sec. 6-23s-10e.

Dixon Test Flows Gas

Amerada Petroleum Corp. has brought in Millar Comm. No. 2 in Sec. 2-6n-2e in the Dixon area, Solano County. The try was finished at 4630 feet for an initial flow of 1,120,000 cubic ft. of gas daily through a 12/64-in. bean.

Honolulu Increases Crude Petroleum Sales

Honolulu Oil Corp. sold during 1945 11,529,549 barrels of crude oil. This was an increase of 206,070 barrels over the preceding year, according to the company's annual report.

Sales of casinghead gasoline were 9,950,491 gallons, an increase of 645,281 gallons. Other liquid petroleum products sales totaled 2,095,925 gallons, a rise of 19,782 gallons. Natural gas sales were 6,392,958,000 cubic feet, up 817,179,000 cubic feet.

Addition of 29,718 acres to its owned and leased holdings in 1945, was announced by the company. This brought the total to 368,452 acres.

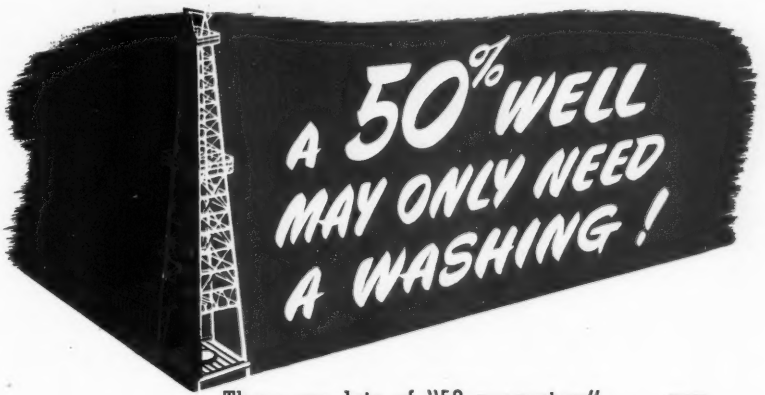
F. A. Leovy Quits Industry

F. A. Leovy, widely known in California and throughout world oil circles, has resigned all his official positions with the Gulf Oil Corp., New York, effective April 30. Associated with the firm since 1904, his resignation was prompted by a desire to retire from active business.

His posts included vice chairman of the board, a director and a member of the executive committee, finance committee and annuity committee of the corporation.

Krieger Oil Co. Gets Stock Permit

Krieger Oil Co. of California, producing and marketing organization, has received a permit from the



There are lots of "50 percenters" . . . you know them. Fair wells, paying their way — but not as good as they should be. Their tests gave promise of much greater production; nearby wells are bringing in twice as much from the same formations. And, surprisingly enough, there's only one thing the matter with most of them.

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State Corporation Department to issue 427,063 shares of $2 capital stock out of an authorized capitalization of 1,000,000 shares. Directors of the company are Woodrow G. Krieger, Jessie Dolfin, George T. Goggin, Matilda U. McElhaney and Thelma L. Krieger.

Pelican State Drilling Record

Shell Oil Co., Inc. has recorded the deepest producing well in the world. It is located in Weeks Island, La. Completed at a depth of 13,778 ft., yield is 380 barrels daily, which is the field allowable.

In common with drilling practices in bayou country a marine rig was used in drilling the record-breaking producer. Deeper wells have been drilled in California and other oil centers, but outputs were below commercial standards.

Northern Gas Tests Commence

Standard Oil Co. has started the drill in Natural Gas Corp.-Du Bois No. 1 in Sec. 28-11n-1w in the Dunnigan Hills, Yolo County, and is making rapid time through surface formations. Kirby Comm. No. 1 in Sec. 24-4n-1w in the Kirby Hills area, Solano County, is drilling below 1500 ft.

Triunfo Try Runs Electrolog

Bennett Exploration Co. has carried Triunfo No. 2 in Sec. 24-1n-19w in the Triunfo area, Ventura County, to a total depth of 2000 ft., and is running electric log for a check on formations.

Casmalia Well Rigging Pump

After swabbing oil and water, Arellanes No. 2 in Sec. 13-9n-35w in the Casmalia field, Santa Barbara County, is being rigged to the pump by the operator, Bel-Air Oil Co. Total depth is 5950 ft., with casing set at 4090 ft.

Sunray Starts At Santa Maria

Giacomini No. 4 in Sec. 24-10n-34w in the Santa Maria Valley field, Sun Ray Oil Co.'s first drilling job on properties recently purchased from Bel-Air Oil Co., is making steady progress below 3700 ft. Twitchell No. 4 in Sec. 35 has drilled to 4777 ft., with casing cemented on bottom.

Bardsdale Job Pumps Off

After it sanded up and was cleaned out, Calzoil Co.'s Calzoil-Robertson No. 1 in Sec. 12-3n-20w in the Bardsdale field yielded 20 gravity oil at the rate of 34 barrels a day, and then pumped off. Total depth is 2999 ft., with casing set on bottom.

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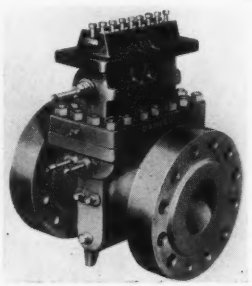

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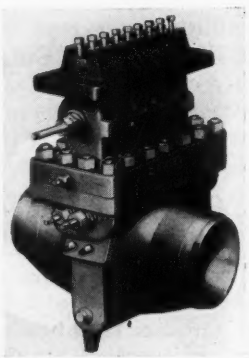

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Cottonwood Creek Explorer Misses

Continental Oil Co. at last reports was running electric log in Reay No. 1 in Sec. 28-29s-30e in the Cottonwood Creek area, Kern County, after drilling to a total depth of 1438 feet in schist, top of which was placed around 1000 ft. No further prospecting in the immediate terrain is contemplated at this time.

Cuyama Rancho Try Going Down

In the Cuyama Rancho area of San Luis Obispo County, H. L. Norris is preparing to carry on down his Cuyama Rancho No. 2 in Sec. 25-11n-28w, San Luis Obispo County, from present bottom at 1970 ft. Although unsuccessful to present bottom from a production standpoint, some interesting showings were encountered.

Acorn Pete Starts Coalinga Project

Acorn Petroleum Co., San Francisco, is preparing to start the drill in Aladdin No. 2 in the Coalinga field. Location is 380 ft. south and 150 ft. west from the northeast corner of Sec. 6-21s-15e. The company is headed by J. J. Coney.

Kern Front Try Dropped

With the Vedder gray to a total depth of 3961 feet, Gene Reid Drilling Co. abandoned Lorraine No. 1 test in Sec. 2-28s-27e in the Kern Front area. Top of Pyramid Hills was placed at 3890, Grit at 3899, and gray Vedder at 3901 ft.

In the Temblor area, where Richfield is drilling M. & L. Fee No. 1 in Sec. 18-29s-21e at 2400 ft. in shale, Gene Reid has cemented surface pipe at 216 ft. in Anderson No. 26 in the section.

Wheeler Ridge Try Deepening

Tejon Oil Co. is deepening No. 1A in Sec. 19-11-19 in the Tejon area in shale at a depth of 10,560 ft. Iron in hole for a time is reported as having impeded normal drilling.

Paloma Well Seems Extender

Considerable attention focuses on Western Gulf Oil Co.'s L. A. A. C. No. 76-1 in Sec. 1-32s-26e in the Paloma area, which is preparing to run casing, after coring oil sand in the Paloma zone from 11,400 ft. to total depth of 11,465 ft.

The well is located on the southeast edge of the Paloma field and it obviously promises extension of Paloma zone production about one-half mile easterly. In this event the Los Angeles Athletic Club will be qualified to add another 120 acres for a total of 520 acres to the Paloma unit plan. The club's royalties will increase in direct proportion to the added ground. Holdings of the club in the area total 1320 acres.

Superior Completes Cymric Producer

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Superior Oil Co. It is Woody No. 58-22, which flowed initially at the rate of more than 800 barrels of 38.2 gravity oil a day through a 13/64-in. bean from a total depth of 4947 ft. The Oceanic sand zone was reached at 4756 ft.

Honolulu Oil Corp's. scheduled Oceanic sand test, Fitzgerald No. 26-1B in Sec. 26-29s-21e is drilling ahead in brown shale at 3750 ft. No. 58A-25 in Sec. 25 is cleaning out, after successfully recovering 18 ft. of drill collar and bit.

Universal Consolidated Oil Co. is drilling Sauerdough No. 7 in Sec. 23 in the shallower formations.

Middle Dome Test Drills

On the Middle Dome of Kettleman Hills, Standard Oil Co. continues to prospect ahead at a depth of 10,475 ft. in hard shale in its No. 73-30v, a scheduled deep test in Sec. 30-23s-19e, Kings County. Bolsa Chica Oil Corp. share interest with Standard in the explorer.

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Dawson Plans Cholame Test

Henry E. Dawson has location staked for Dumplin No. 2 test, some 2800 ft. south and 1500 ft. east from the northwest corner of Sec. 18-25s-16e in the Cholame area of San Luis Obispo County.

Jergins Add Edison Well

The prolific schist zone in the Edison field, overlooked until two years ago, has given Jergins Oil Co. another new well, good for 1250 barrels daily of 25.2 gravity crude oil through perforations from 1866 and 2130 feet, at intervals. It is called Hershey No. 9-A and is situated in Sec. 14-30s-29e.

East Puente Oil Co. is rigging pump to its well No. 2 in Sec. 24, with bottom at 2065 and casing cemented at 1685 ft.

Kern River Try Finds Gray Sand

Having found the Vedder sand, topped at 3000 ft. gray and barren, Bender Oil Operations have abandoned Seaboard No. 1 test in Sec. 22-28s-28e in the Kern River area at a total depth of 3068 ft. The top of the Pyramid Hills zone was placed at 2968 ft.

Frank C. Creasey has location for No. 6 in Sec. 8-29s-28e. Ray Frampton has drill site selected for Frampton No. 6 in Sec. 27.

McKittrick Job Drilling Deeper

W. T. Woodward and American Placer, Inc. are jointly deepening the old MacDonald, Burns and Norris' Flickinger No. 1 in Sec. 36-30s-22e in the McKittrick area. Present depth is in shale below 5200 ft.

Dyer Creek Test Listed

D. Shadle, independent operator of Fresno, is grading for Deepwell No. 1, a wildcat test located 330 feet south and a like distance west from the center of the northeast quarter of Sec. 14-26s-27e. The Texas Co., Cairns No. 1 in Sec. 14 is drilling at 350 ft.

Kern County OIL NEWS

"FROM PROBLEMS to opportunities and from opportunities to despair again" . . . This seemed the chant of some oilmen recently. But it differs from the days of yore at last War's End . . . One score and seven years ago the boys brought forth a bromide toast which was the jargon of the oilwig and "ruffneck" alike: "Near-beer was better than nothing . . . nothing was better than champagne, therefore, near-beer was better than champagne . . . " Today, at War II's End, the chant is different: "Ten cents is worse than nothing."

IN KERN, oilmen were as they were everywhere, treated to a real "April Fool." Pattern of the day was to turn off radios, sell additional shares, throw down newspapers and slog to the car for a daily dozen at the derrick. Only hope in some oilwig's heart: " . . . it could be a foot-in-the-door for a two-bit additional bid for price rise in oil some time after next Congress . . . "

FOR SMALL OILMEN, large problems loomed like "wildcats" at Red Rock Canyon. With no Chamber of Commerce to run to, the oilmen failed to take the protest lying down. Soon, however, came quick response, and every operator was a dynamo with increasing static to "DC" . . . He has taken the protest on his own 25 price line to make it a 35 cent gain. For, say they, "60 per cent of U. S. production everywhere must come from small business, while over 80 per cent of industrial labor is employed in plants which are small . . . soon we will find a resting place with the cable tools of the fraternity."

IN MOST KERN "KORNERS," the story was different, but the final calculation was the same . . . it all depended upon the kind of a rotary one had hitched his pipe to. Some independents mentioned splitting up the work-week hours . . . But this was talk at marble-shooting time. Nothing is going to storage, and the ratio in locating, producing and consuming is unhealthy . . . Yet the differences in opinion are making other kinds of wagers interesting.

"TAXATION WITHOUT REPRESENTATION" made tea in Boston awful dumpy. 170 years later when Kern exhibits at the big California State Fair omitted Oil, Mining and Recreation, history repeated itself and the boys and oil men at Taft began to dump their thoughts into the press. As a result it appears that the oil and mining gentry forgot to delegate a representative to be on the Exhibit Committee. At this writing the boys "in the know" have assured the fraternity that oil, mining, fish and game will probably be restored to Kern's Fair Exhibit.

CNGA — TAFT CHAPTER — One of the most enjoyable programs took place this month in Taft when the Taft Chapter of CNGA discussed the subject by-productile manufacturing for Kern County, and Kern industrial work-pattern for postwar. Principal speaker of the evening was Emory Gay Hoffman, General Manager of the Kern County Chamber of Commerce, who devoted considerable time to anticipated surpluses of the natural resources of Kern County which could be economically manufactured at the source of origin for the most practical purposes.

MARRIED: on March 5, Gordon Hall of the Richfield Oil Corporation, Gasoline Department.

T. L. TAGGART was on a business mission early this month to Kettleman Hills, where he met with his foremen of the SOCO gasoline department.

LEVELING THE EYE on the

GASOLINE MEN: George Howells, Secretary; E. C. Spencer, Chairman; Russell Wood, Past Chairman and Jim Millen, program chairman of the Taft Chapter California Natural Gasoline Association made plans this month to study Kern Industrial opportunities for by-productile manufacturing. Meeting at the association's new club house headquarters about fifty members recently listened how to make Kern's Problems Look Like Opportunities.

Company's newest Compressor Plant Project of the Tide Water Associated Oil Company. F. J. Colton, as Superintendent of gas operations, has been considerably engrossed with the increasing returns of the undertaking.

NORWALK'S E. C. Spencer has been considering the prospect of buying a farm for the purpose of "making himself self-supporting as regards products from the soil including oil and animal husbandry."

STERLING PRICE of the Standard Oil Company, Department of Industrial Relations, was recently elected Chairman of the Taft Chapter of Toastmasters International.

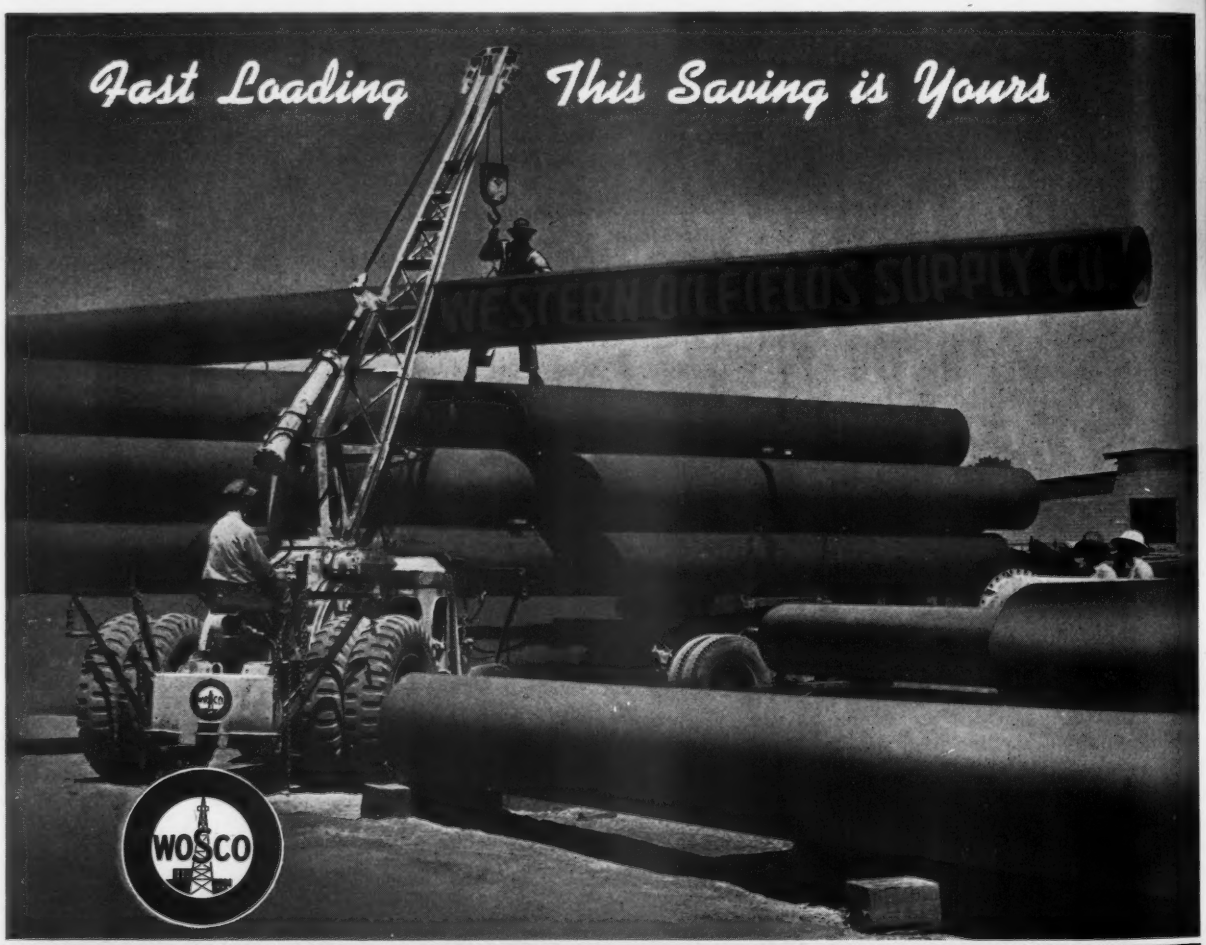
TO "NEW FIELDS TO CONQUER" with the Pipe Line Division of Bechtel Brothers McCone Co. went C. B. "Chick" Adelmann formerly with Southern California Gas Company.

CHARLES D. LANZIT with the Natural Gas Equipment, Ann Arbor Drive, Bakerfield, was a visitor to the Kern County great West Side a fortnight ago.

COL. JACK DOUGERY who is a graduate from Minter Field during the war, where he ran and won the race from Lt. to Lt. Col. is now connected with the Capital Freight Lines and bears the well wishes of all oil people in this county who know him.

FROM FAIRBANKS, ALASKA this week has come word from Dr. Jeanne Isobel Johnson, D. S. C. that it is never too dark near the circle to enjoy the news of California found in California Oil World. A number of California oil men have been there recently and C. O. W. has found its way toward the North Pole.

DISTRICT SUPERINTENDENT H. V. Cowger, Natural Gasoline Dept. of the Standard Oil Company now located in Taft. His successful efforts for the company are equally matched by his successful



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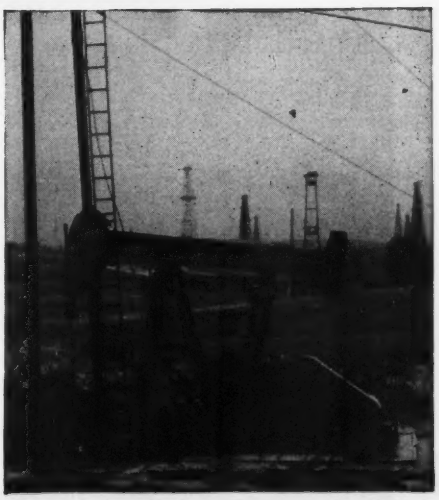

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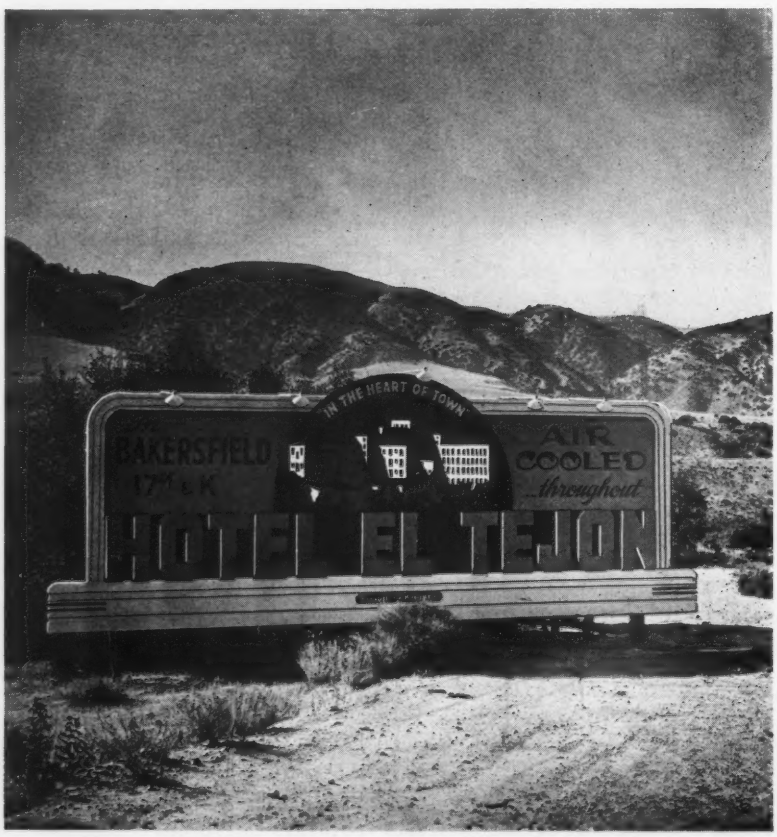

human relations with his fellow workers. This column desires to offer him an orchid in oil.

EARTHQUAKES in some local areas have not shirred off many pipes, however, some of the ground in Kern County has been on the prowl in recent years, as evidenced by the reports from Honolulu Oil. However, the oilmen do not share this phenomena alone. The areas between Famosa through Poso Creek, north through McFarland to Delano has settled more than a foot in recent years.

SOMETHING NEW HAS BEEN ADDED—Fred H. Sincock is establishing an agency for "Autoettes" according to information received by your scribe. The autoette sells for about $500, uses no oil but is a hog for storage batteries. This is a handy gadget for your wife's groceries, or a trip to the golf course not more than once or twice a week but will probably not be allowed on the "greens." The only oil it uses will be lubricating oil for axles and steering device. The works are jeep-like with not too many fine appointments. Why doesn't some oil wig invent a similar baby that will burn surplus petroleum products, to sell for $300 so we can all have one?

H. DWIGHT BOVEY representing Western Oil Fields Supply Co. took a peep at life 31 years ago. He was recently released after a 4½ year junket in the U. S. Army Air Corp as a Lt. Col. Dwight says he still feels like he was on terminal leave. He was stationed in California most of the time, associated with the Fighter Control by radio, Radar Early Warning Stations, and emergency rescue of crews or downed aircraft. In 1942 he was Commander of a Squadron which had a radio station and a detachment of men located at the Kern County Fairgrounds. He used to live in Des Moines and worked for the Firestone Tire and Rubber Company before he went into the army. His wife, Elaine, and daughter Barbara Jane, age 5, and Mina Lee, age 3 will make Bakersfield their home, at 2700—17th Street. Mrs. Bovey and Dwight visited Bakersfield, fell in love with it, and decided to make

this place their home, of all the places they lived the country and world over.

HARRY E. HOPKINS Tax Consultant for the small and big businessman alike, as well as the oil operator and farmer, predicts a huge increase in taxes, increased valuation and the rates worsened although not too extensively if he can help it.

TWENTY YEARS ago a burning mine shaft two miles south of McKittrick proved to be a great spectacle at night. Asphalt had seeped into the shaft and caught fire by unknown reasons. At that date the oil which burned was not considered very useful but today it is one of the most valuable types or grade.

THIRTY YEARS ago the rice industry in Kern was almost as exciting as the oil news after the fifth anniversary of the Lakeview Gusher at Maricopa.

FIFTY YEARS ago Henry Miller of Miller & Lux fame was newsitemed as having registered at the Southern Hotel. It will be remembered that fate has behaved in a strange way when with all the vast and principal holdings in Kern by Henry Miller, none of it so to speak ever became oilbearing land while in his possession or for the most part after sale and ownership was transferred to others.

EACH YEAR for several decades it has been the custom of some oilwigs to mow their own lawn for exercise, especially if their work was more or less confining. Each year some member of the personnel over does it and let this column be a warning. Recently J. F. McIntyre of North Belridge, Standard Oil suffered a heart atack and passed away as a result of early morning mowing. McIntyre was well known here in Kern although having transferred here from Tracy as early as 1935. He was a 29 year man for his firm, as stationary engineer for the Middle Pump Station. He was a native of Fair Oaks, Indiana, and a veteran of World War I.

BY APRIL 12, 1916 Kern County was acknowledged as owner of more than one half of all the oil land in California, by the press reports of the day. Today half the wells drilled in California have been drilled here. However, only about a third of the state production comes from this county because of the cutback and shutin program by gentlemen's agreement. Around Shafter, Rio Bravo and Ten Section are some of the world's deepest wells, and best producers.

V. R. G. WILBUR of Pasadena who was recently elected head of the Calif. Stripper Well Association certainly meets with great approval of Kern oilmen according to local appraisal by a cross section of small well operators.

HAVE TO HAND it to Kern oilfolks. They certainly turn out for organization and study group meetings. More than half the anticipated representation from here was at API meet this month in Los Angeles.

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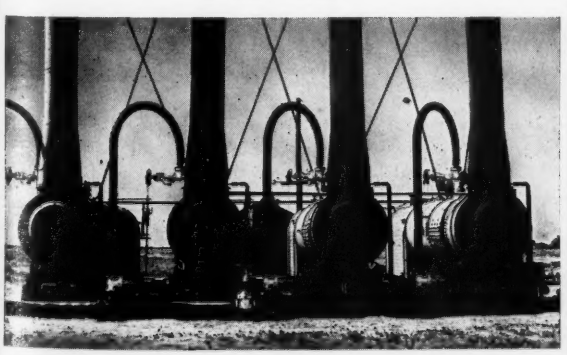

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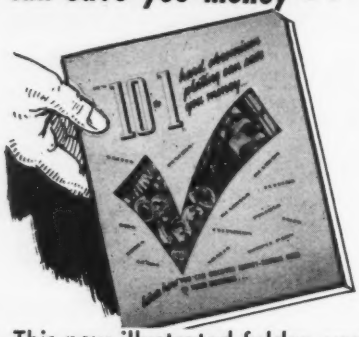

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Grapevine Gets New Producers

Drilling & Production Co., J. V. No. 59 in Sec. 32-11n-19w has been completed flowing 110 barrels of 18 gravity oil a day through a 6/64-in. bean. Total depth is 2632 ft. The well is higher on structure than any other well in the Grapevine-Tejon area.

In Sec. 35, Richfield Oil Corp. has finished Tejon No. 48-35, pumping 14 barrels of 17.9 gravity crude daily. Depth is 2365 ft.

Red Mountain Prospect Drills

On the Rancho Casitas, Continental Oil Co. continues to drill steadily on down in its No. 2 well in Sec. 7-3n-23w, Ventura County. Present depth is 7000 ft. in hard shale.

Fairfield Plans So. Mountain Well

Approximately one-half mile northwesterly of the Los Nietos Co. L. B. H. No. 1 discovery well, F. E. Fairfield is rigging derrick for Converse No. 1 in Sec. 23-3n-21w in the South Mountain area, Ventura County.

Gato Ridge Well Sidetracks Pipe

Quincy Cass Associates have set whipstock at 3342 ft. in Arata No. 2 in Sec. 4-8n-32w in Gato Ridge area, preparatory to sidetracking drill pipe and bit left in hole. Depth is 3460 ft.

Santa Paula Job Runs Tubing

Oscar J. Smith has run tubing in Anlauf No. 7 in Sec. 21-4n-21w at Santa Paula Creek, Ventura County, and shut the well in, with casing pressure 160 pounds. Total depth is 1320 ft.

Piru Wildcat Drilling Ahead

R. E. Havenstrite, Operator, is drilling Lisk No. 1 wildcat test in Sec. 15-5n-18w in the Piru area below 1700 ft., without reported showings of oil or gas to present depth.

Buena Vista Try Reaming

Seaboard Oil Co. last was reported reaming SWUM-BVA in Sec. 14-32s-25e in the Buena Vista Lake area at 4205 ft. Plans of the company evidently call for redrilling the well back into the Stevens zone. Original depth was 11,480 ft., but the lower portion of the hole was lost, due to caving.

In the Buttonwillow area, Seaboard is drilling Arlington Prop. Corp. No. 12-6 in Sec. 6-28s-23e below 3800 ft.

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Trico Well Makes Progress

Trico Oil & Gas Co. continues to make steady progress at 3300 ft. in clay in Coe Comm. No. 74 in Sec. 13-24s-22e in the Trico area, Kings County.

THIS LAUGH

OFF!!

A couple were sitting on the lawn admiring the scenic beauty.

"Some moon out tonight," said he.

"Some stars," said she.

"Some dew on the grass," said he.

"Hell, no not me," said she—and left.

"What are you putting in your vest pocket there, Murphy?"

"That's a stick of dynamite. -Every time that Riley sees me he slaps me on the chest and breaks all of my cigars. The next time he does it, he's going to blow his hand off.

Two mind readers meet on the street: "You're fine, how am I?"

Removing his shoes, he climbed the stairs, opened the door of the room, entered and closed the door without being detected.

But just as he was about to get into bed, his wife, half-aroused from her slumbers, murmured, "Is that you, Fido?"

And for once in his life the husband had real presence of mind. He licked her hand and she went back to sleep.

There are few of the great philosophers who have made a greater contribution to the science of happiness than the hard-working Negro woman who had a thoroughly lazy but likable husband. When she was asked why she put up with him, she answered:

"Well, it's this way; I makes the livin', and he makes the livin' worth while."

This was way back in the 'sixties when the first train was crossing the plains of Texas. Charging down the track headed straight for the locomotive, the engineer saw a shaggy monster of a buffalo coming full tilt. And the man, at the throttle observed:

"Old boy, I sure admire your nerve; but damn your judgment."

Two farmers went fishing one day, and when they got home, they compared their experiences. One said he had caught a 200 pound salmon. The other called his attention to the fact that salmon never weigh 200 pounds, but the first stuck to what he claimed. Then he asked:

"What did you catch?"

"Well," was the reply, "all I got was a rusty old lantern bearing the inscription 'Captain Kidd, 1756,' and, would you believe it, there was a lighted candle inside it."

The first fisherman gulped, cleared his throat, and said:

"Looka here. Let's get together on our fish stories. I'll take 100 pounds off my salmon if you'll put out the candle in that there lantern."

The touring company gave a performance of "King Lear," and the local critic wrote: "If Shakespeare could have seen his play performed he would have turned in his grave."

Next night the same company did "Othello," and the leading actor thought he had made a hit this time, until he opened his paper and read: "We thank the company at Buskin Theatre. Shakespeare is now on his back again."

Ted: "My feet burn like the dickens. Do you think a mustard bath would help?"

Ned: "Sure! There's nothing better than mustard for hot dogs."

"Thirty years ago," said the man who had traveled to the end of the earth and most of the way back, "I started out, alone, unaided, without friends to help me along, with the intention of making the world pay me the living it owes me. My only allies were a dollar bill and a determination to make a million more . . . "Today," and he threw out his chest proudly, "I still have that determination . . . and fifty cents in change."

Customer: I would like to get a silk blouse for my wife, please."

Clerk: "What bust?"

Customer: (Looking around) "I didn't hear anything."

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Washington Highlights

Price controls over the petroleum industry will be removed within the next few weeks, under plans now being made by stabilization officials, although no definite date has been set as yet.

The long fight for relief from price control for both crude oil and petroleum products has entered a new phase during the past few weeks, with the major brunt of the attack being shifted from the Office of Price Administration to the Office of War Mobilization and Reconversion.

During the past two weeks there have been a series of meetings between industry officials, the OPA and John Snyder, Chief of OWMR, during which the problem has been discussed with a view to obtaining an order from Snyder for the decontrol of the industry.

At the same time, Representative Wright Patman (Dem., Texas), Chairman of the House Small Business Committee, and leader of the Congressional movement for eliminating price controls in the oil industry, has written Snyder several letters urging the immediate lifting of controls.

The latest official promise on decontrol came from Economic Stabilization Director Chester Bowles, who told Patman that the ceilings would definitely be abolished by Oct. 1, but added that there was a strong possibility that this would be accomplished by June 30.

Snyder is now considering the plea of the industry for relief, which was joined in by top ranking Navy officials who urged the end of the controls as a measure to increase production of low-cost Navy fuel oils, which are now in very short supply.

Snyder has not yet given any indication of his decision on the matter, but usually informed sources believe that the recent negotiations point to relief for the industry considerably sooner than originally estimated by Bowles.

Meanwhile, the House has passed the extension bill for OPA, but included provisions which would automatically end control of oil on June 30. While the Senate is expected to disapprove these provisions on the grounds that they would free virtually every industry in the United States, every indication points to action by OWMR prior to that time.

In his latest letter to Snyder, Patman vigorously denied the contention that the lifting of price controls would be the signal for state regulatory bodies to reduce production allowables below demand in an effort to force higher retail prices.

"It has come to my attention," Patman said, "that certain of your advisors on this important question have expressed a fear that, upon lifting of controls, the Texas Railroad Commission would use its regulatory powers in such a manner as to influence price without reference to its paramount duty to provide adequately for the nation's oil needs. I consider this fear totally unfounded and so regarded it at the time I addressed my previous communication to you."

Patman cited a pledge sent by the Commission to President Truman as conclusive proof that this fear is totally unjustified.

"That telegram," Patman declared, "constitutes a clear-cut unequivocal and binding pledge to the President, the Administration and the Congress that the Commission will use its powers to insure ample production to supply the national demand, thus meeting the test for decontrol through 'expanding production' pledged by Mr. Bowles as his yardstick in his recent testimony before the House Committee on Banking and Currency."

Patman pointed to the fact that the Commission had just authorized an unconditional increase in production quotas of Texas oil wells of 200,000 barrels a day during April as removing "the last possible argument against the immediate lifting of price controls on crude oil and refined products."

Deputy Petroleum Administrator Ralph K. Davies appeared before the House Oil subcommittee of the Interstate and Foreign Commerce Committee late this month to present the final report of the Petroleum Administration for War before its final dissolution on April 30.

After reviewing the accomplishments of the oil industry during the war, Davies termed the PAW as the "most efficient and harmonious" government-industry team developed during the war and urged that it be taken as a pattern for peacetime cooperation on a much wider scale.

Davies also strongly urged the termination of control over oil prices, pointing out that an adequate supply of crude is available, refining capacity is sufficient to meet all demands, and that except for arbitrary State limitations on production crude supply should be satisfactory.

"Therefore, considered from the standpoint of petroleum operation," he said, "I know no reason why price controls on petroleum should not now be terminated."

Since PAW has received general industry approval of its operations during the war, it is expected that the industry will endorse the proposal made by Davies that a permanent agency be established within the government to coordinate all the remaining activities of the Federal government with respect to oil.

At the same time the industry is expected to continue on a smaller scale its own part of the team which functioned so smoothily during the war—the Petroleum Industry War Council.

While the Council has already been disbanded, William R. Boyd, President of the American Petroleum Institute, who headed the Council during the war, has maintained an office and small staff in Washington which could form the basis of a new peacetime council to represent the oil industry in Washington and work in cooperation with the Federal agency.

There were frequent fights over the conduct of the industry during the war between PAW and PIWC, which included 70 of the top oil executives in the country but there were very few instances in which agreements could not be reached around the conference table. As a result of this, the industry and the Federal control agency nearly always presented a united front on all issues concerning petroleum with other governmental agencies or with Congress itself.

Davies warned that from the standpoint of national defense, our position as regards petroleum supply has deteriorated during the last five years to the point that should another war come, we would be unable to supply enough oil for the needs of the military services. He urged the establishment of a sound national oil policy with the development of additional resources with productive capacity sufficient to meet any such emergency.

"Increases in all operating expenses undoubtedly make it cost more to find a barrel of oil today than in the years before the war," Davies said. "Capital will not be attracted to this business unless it offers an adequate return in consideration of the risks incurred. The hazards of exploration are high and capital will not flow into new ventures unless the price of crude oil is at a level which will, in the event of success, return the investment and a profit commensurate with the risk. Price levels are decidedly below that point today."

Davies also urged the establishment of adequate conservation measures in California, Illinois and the nine other states not now having conservation laws.

"During the war, conservation practices were enforced in California under a PAW directive," Davies said. "Production engineers and producers have not hesitated to say under PAW's administration California production practices reached higher scientific levels, with greater fairness to all operators, than had ever before been experienced. Now with the fighting war over, PAW control is at an end, with no state control to replace it.

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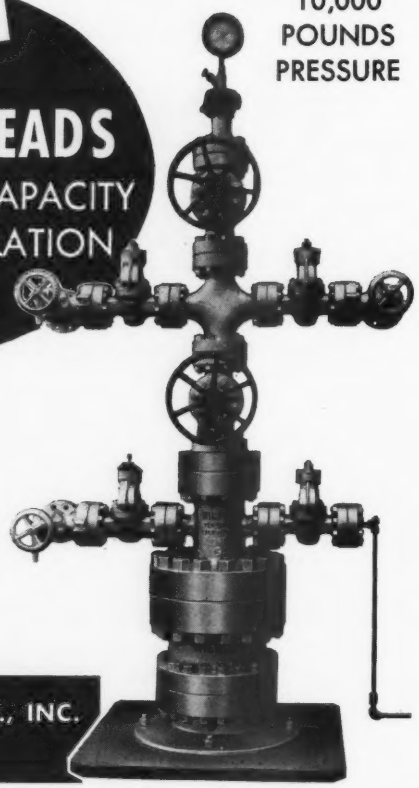

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Let us hope this situation is soon corrected by the California Legislature."

Davies wound up his final report with a thinly veiled warning to the industry to form some sort of agency to cooperate with the Federal government during the peacetime years ahead if it wished to remain a free competitive industry and not become more and more nationalized.

He also warned that unless there be some better peacetime governmental organization for coordination of the Government's oil functions in terms that will continue something comparable to the centralization achieved during the war, we will go back to the unsatisfactory condition of 1941 when 27 different branches of the Executive Branch of the Government were dealing with some phase of petroleum activities.

Emphasizing that he did not envision as necessary any increased Federal control over the operations of the industry, and that he was not suggesting any expanded authority on the part of the Federal Government over the oil industry, he urged a rearrangement along logical organization lines of the many functions already performed under existing law.

"It is my earnest hope that this Federal interest may not be enlarged, and it is consistent with this attitude that I make the recommendation I do," he declared. "The need for additional powers is lessened—not increased—through developing a better coordinated and more efficient conduct of those activities relating to oil which are at present the business of the Federal Government."

Establishment of such a central office, he said, should be within the framework of the Department of the Interior as the logical place under the established broad provisions of Executive responsibility. Further, he added, a good part of the present-day activities of the Federal Government in relation to oil are already there, although spread about among various bureaus.

"It will be a great pity, I think, if, growing out of our wartime ex-

perience, there does not evolve an improved organizational arrangement within the Federal Government and an effective relationship between the Government and the petroleum industry," Davies said. "The experience on both sides over the past five years ought to have taught some lessons of worthwhile application looking to the future.

"I hope that those responsible in Government will not fail to recognize the opportunity to do a better piece of work in the days ahead.

"And I hope that the oil industry will recognize in this their best assurance of continued independence and their best protection against governmental encroachment."

* * *

Latest development in the California tidelands situation was the decision by Senator Pat McCarran (Dem., Nev.), chairman of both the subcommittee which has approved the bill affirming state title to all tidelands, and of the full Senate Judiciary Committee, to call up the bill before the full committee the first time there is a quorum present. He intended to call it up on April 15, but not sufficient members were present.

It is unlikely that McCarran can gather a quorum of his committee until after the first of the month, but it is expected that the legislation will be approved and reported out for Senate action during the first part of May.

Meanwhile, California's Attorney General, Robert W. Kenny, appeared before the Supreme Court again to answer a motion of the Federal Government asking that the original 822-page answer to the suit be barred on the grounds that it is "prolix."

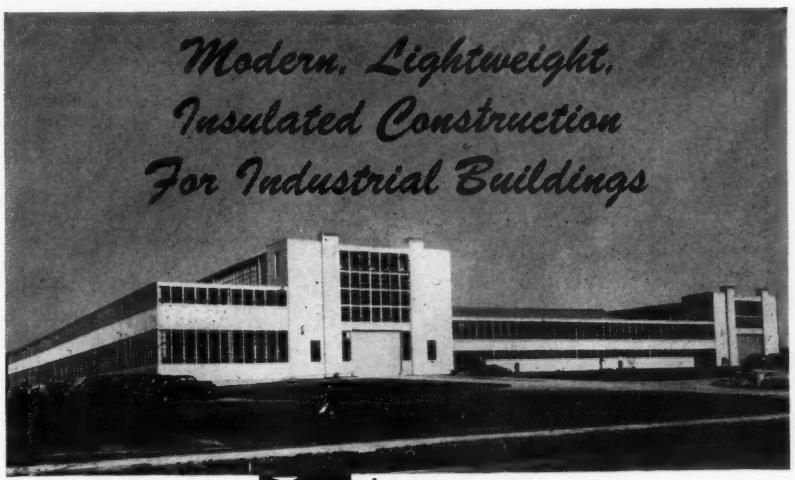
Kenny charged that the Government was attempting to deprive the State of California of its day in court, and said that "it appears that the Government would like to debar California even from submitting its evidence to the Court."

Kenny said that the reason for the length of the document was because of the tremendous amount of relevant material which it was necessary to give the court in order that it might have all the facts in the case.

"The Government is apparently seeking to deprive California (and other States) of property of inestimable value without regard to the facts of history or long record of official acts of all Departments of the Federal Government recognizing state titles," Kenny argued. "It would, as was said, like to present the case to the Court in vacuo, on the basis of some theoretical doctrine of emerging property rights."

The Iranian Government has announced that in the future it will collect taxes on all American-produced oil reaching it from Bahrein Island at the same rate as is collected on the production of the Anglo-Iranian Oil Company.

Bahrein Island, a sand-bar 27 miles long and 10 miles wide, lies on the Arabian side of the Persian Gulf. Standard of California and The Texas Company share the oil produced on the island.



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CALIFORNIA

NEW RIGS UP

	Total 1945	Total 1944
SAN JOAQUIN VALLEY		
Ant Hill	21	.....
Antelope Hills	3	10
Antelope Plains	.....	.....
Arvin	.....	.....
Bellevue	.....	6
Belridge—North	7	3
Belridge—South	115	199
Blackwell's Corner	4	.....
Brundage	1	.....
Buena Vista Hills	139	82
Burrel	.....	3
Canal	.....	.....
Canfield-Gosford	1	2
Canfield Ranch	.....	.....
Coalinga—East	57	91
Coalinga—Nose	2	2
Coalinga—West	14	57
Coles Levee—North	11	14
Coles Levee—South	5	
Dyer Creek	.....	1
Edison	62	30
Elk Hills	208	125
Fruitvale	9	20
Greeley	7	10
Helm	21	21
Jacalitos	28	17
Kern Front	54	85
Kern River	32	35
Kettleman North Dome	16	16
Lanare	14	2
Lost Hills	14	2
McClung	.....	2
McKittrick	36	37
Midway-Sunset	57	153
Mountain View	4	8
Mount Poso	29	45
Paloma	27	14
Pleasant Valley	5	9
Pyramid Hills	9	.....
Race Track	9	.....
Raisin City	5	13
Rio Bravo	.....	1
Riverdale	5	20
Rosedale Ranch	5	.....
Round Mountain	29	25
Santiago	9	.....
Sheep Springs	7	.....
Strand—East	1	4
Strand—West	.....	2
Tejon	18	9
Ten Section	.....	.....
Union Avenue	1	.....
Wasco	.....	.....
Wheeler Ridge	.....	.....
Miscellaneous	6	27
Total San Joaquin Valley	**1,107**	**1,202**

	Total 1945	Total 1944
COASTAL AREA		
Aliso Canyon	5	8
Bradley Canyon	1	.....
Capitan	11	1
Del Valle	4	3
Elwood	6	4
Gato Ridge	7	8
Hasley Canyon	.....	.....
Newhall-Potrero	5	4
Oak Canyon	4	4
Oxnard	1	.....
Padre Canyon	5	5
Ramona	9	.....
Rincon	13	15
San Martinez	6	7
San Miguelito	2	8
Santa Barbara	.....	.....
Santa Maria	15	27
Santa Maria Valley	83	94
Summerland	.....	.....
Ventura Avenue	46	33
Ventura-Newhall	51	36
Watsonville	.....	.....
Zaca Creek	.....	.....
Total Coastal Area	**274**	**257**
LOS ANGELES BASIN		
Brea-Olinda	2	7
Buena Park	.....	1
Coyote—East	7	9
Coyote—West	22	20
Dominguez	10	12
El Segundo	.....	2
Huntington Beach	51	72
Inglewood	.....	7
Lawndale	.....	.....
Long Beach	4	6
Los Angeles-Salt Lake	.....	.....
Montebello	10	11
Newport-Costa Mesa	61	1
Playa Del Rey	1	.....
Potrero	1	.....
Richfield	17	8
Rosecrans	3	7
Sansinena	1	.....
Santa Fe Springs	1	.....
Seal Beach	15	12
Torrance	42	33
Turnbull Canyon	2	.....
Whittier	4	5
Wilmington	139	144
Yorba Linda	.....	1
Total Los Angeles Basin	**393**	**358**
EXPLORATORY		
Outpost Wells	147	.....
Wildcats	118	302*
Gas Wells	57	.....
Total California	**2,096**	**2,119**

*—Miscellaneous, unclassified.

CALIFORNIA

WELLS ABANDONED

	Producing		Drilling	
	1945	1944	1945	1944
SAN JOAQUIN VALLEY				
Ant Hill	....	....	4	....
Antelope Hills	....	....	....	....
Antelope Plains	....	....	....	....
Arvin	....	....	....	....
Bellevue	....	....	3	2
Belridge—North	2	....	3	....
Belridge—South	23	2	2	3
Blackwell's Corner	1	....	....	....
Brundage	....	....	1	....
Buena Vista Hills	23	7	10	5
Burrel	....	....	....	2
Canal	....	....	....	....
Canfield-Gosford	1	....	1	....
Canfield Ranch	....	....	....	....
Coalinga—East	18	25	2	2
Coalinga—Nose	4	5	....	....
Coalinga—West	9	12	....	1
Coles Levee—North	....	1	....	....
Coles Levee—South	....	....	2	....
Dyer Creek	....	1	....	2
Edison	2	1	5	5
Elk Hills	2	....	8	1
Fruitvale	1	3	2	....
Greeley	2	....	2	3
Helm	....	....	....	....
Jacalitos	....	....	2	2
Kern Front	6	2	12	5
Kern River	3	2	4	1
Kettleman North Dome	....	....	....	....
Lanare	....	....	1	....
Lost Hills	....	2	1	....
McClung	1	....	....	3
McKittrick	1	4	5	6
Midway-Sunset	58	23	9	15
Mountain View	9	7	3	3
Mount Poso	3	1	9	11
Paloma	....	....	1	2
Pleasant Valley	....	....	....	....
Pyramid Hills	....	....	5	....
Race Track	....	....	....	....
Raisin City	....	....	....	1
Rio Bravo	....	....	....	1
Riverdale	1	....	1	1
Rosedale Ranch	....	....	....	....
Round Mountain	3	2	4	9
Santiago	....	....	1	....
Shafter	1	....	....	....
Sheep Springs	....	....	3	....
Strand—East	....	....	1	....
Strand—West	....	....	....	1
Tejon	1	....	2	3
Ten Section	1	1	....	....
Union Avenue	....	....	....	....
Wasco	1	....	....	....
Wheeler Ridge	....	....	....	....
Miscellaneous	1	....	3	....
Total San Joaquin Valley	**178**	**101**	**112**	**90**

	Producing		Drilling	
	1945	1944	1945	1944
COASTAL AREA				
Aliso Canyon	....	....	....	....
Bradley Canyon	....	....	1	....
Capitan	....	....	....	....
Del Valle	1	....	1	....
Elwood	....	2	....	....
Gato Ridge	1	....	1	1
Hasley Canyon	....	....	....	....
Newhall-Potrero	....	....	1	....
Oak Canyon	....	....	1	2
Oxnard	....	....	....	....
Padre Canyon	....	....	....	....
Ramona	....	....	1	....
Rincon	1	....	1	1
San Martinez	....	....	1	1
San Miguelito	....	....	....	....
Santa Barbara	....	2	....	....
Santa Maria	2	3	6	5
Santa Maria Valley	3	2	4	2
Summerland	....	....	....	....
Ventura Avenue	1	....	....	....
Ventura-Newhall	4	17	9	11
Watsonville	....	....	....	....
Zaca Creek	....	....	....	....
Total Coastal District	**13**	**26**	**27**	**23**
LOS ANGELES BASIN				
Brea-Olinda	7	1	....	....
Buena Park	....	....	2	....
Coyote—East	1	1	....	....
Coyote—West	2	....	....	....
Dominguez	1	3	....	....
El Segundo	7	2	....	1
Huntington Beach	30	14	5	2
Inglewood	....	2	....	....
Lawndale	....	....	....	....
Long Beach	54	51	1	3
Los Angeles-Salt Lake	1	....	....	....
Montebello	7	16	....	....
Newport-Costa Mesa	1	....	12	....
Playa Del Rey	1	....	1	....
Potrero	....	....	....	....
Richfield	6	5	3	....
Rosecrans	3	5	....	....
Sansinena	....	....	....	....
Santa Fe Springs	12	14	....	....
Seal Beach	4	1	1	....
Torrance	5	22	....	....
Turnbull Canyon	1	....	2	....
Whittier	4	....	1	3
Wilmington	....	....	....	....
Yorba Linda	....	3	....	....
Total Los Angeles Basin	**147**	**140**	**28**	**9**
EXPLORATORY				
Outpost Wells	....	....	103	....
Wildcats	....	....	120	201*
Gas Wells	....	....	14	....
Total California	**338**	**267**	**404**	**323**

*—Miscellaneous, unclassified.

STOCKS OF PETROLEUM PRODUCTS
Pacific Coast Territory—Total 1945—Last Day of Month
(Figures in Thousands of Bbls.)

	Crude Oil	Nat. Gasoline Incl. Liquefied Petroleum Gases	Gasoline and Naphtha Distillates	Kerosene and Kerosene Distillates	Lubricating Oils Greases and Distillates	Gas Oil and Diesel Oil
January	26,352	1,299	19,438	918	2,259	9,835
February	26,069	1,396	20,085	909	2,281	9,309
March	26,198	1,464	20,216	870	2,200	8,770
April	26,107	1,338	18,467	807	2,192	8,912
May	24,759	1,252	17,621	811	2,097	9,314
June	23,309	1,332	16,835	822	2,033	10,093
July	22,720	1,168	16,200	859	2,034	11,034
August	21,848	1,093	16,221	917	1,917	11,598
September	21,664	978	15,407	863	1,952	10,999
October	21,812	947	16,275	872	1,968	10,656
November	22,526	1,128	17,151	872	2,031	9,794
December	23,224	1,051	18,295	885	2,127	8,627

	Fuel Oil Residuum	Asphalt and Road Oils	Coke and other Finished Products	Other Unfinished Oils	Total Petroleum Net
January	24,521	781	316	720	86,439
February	21,040	847	416	786	83,138
Marhc	19,121	903	465	844	81,051
April	17,029	966	475	972	77,265
May	17,068	1,004	478	838	75,242
June	17,291	999	556	902	74,172
July	19,328	949	589	912	75,793
August	21,086	786	606	893	76,965
September	22,398	800	578	914	76,553
October	21,625	835	569	944	76,503
November	20,762	838	541	1,036	76,679
December	18,291	837	544	931	74,812

STOCKS OF PETROLEUM PRODUCTS AT REFINERIES
Pacific Coast Territory—Total 1945—Last Day of Month
(Figures in Thousands of Bbls.)

	Crude Oil	Nat. Gasoline Incl. Liquefied Petroleum Gases	Gasoline and Naphtha Distillates	Kerosene and Kerosene Distillates	Lubricating Oils Greases and Distillates	Gas Oil and Diesel Oil
January	9,029	918	15,185	657	1,166	6,726
February	8,874	1,047	15,698	643	1,195	6,320
March	8,774	950	16,116	625	1,231	5,963
April	9,037	982	14,071	566	1,203	6,170
May	8,414	786	13,654	542	1,123	6,309
June	8,027	882	13,470	565	1,085	7,296
July	7,842	727	12,443	611	1,118	7,857
August	7,940	831	10,913	656	891	7,086
September	8,031	690	10,163	619	1,081	7,978
October	7,843	764	11,249	603	1,118	7,760
November	7,945	932	11,899	619	1,175	7,000
December	7,714	785	13,473	658	1,283	5,709

	Fuel Oil Residuum	Asphalt and Road Oils	Coke and other Finished Products	Other Unfinished Oils	Total Petroleum Net
January	17,213	652	243	720	52,509
February	14,850	677	344	786	50,434
March	13,752	735	389	844	49,379
April	13,060	791	391	972	47,243
May	12,014	740	396	838	44,816
June	12,628	754	472	902	46,081
July	14,477	714	511	912	47,212
August	15,968	598	523	893	46,299
September	16,560	643	498	914	47,177
October	16,217	697	493	944	47,688
November	15,713	680	472	1,036	47,471
December	13,174	709	482	931	44,918